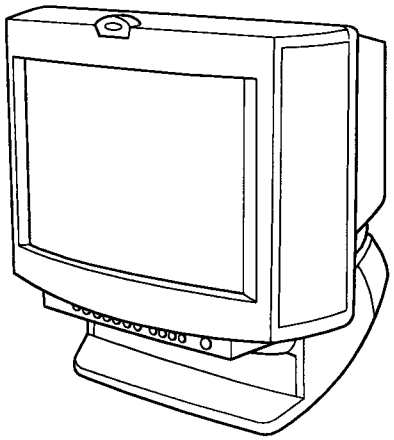
CPD-220VS

SERVICE MANUAL

US Model
Canadian Model
Chassis No. SCC-L02A-A



VAIO

V-2 CHASSIS

SPECIFICATIONS

Picture tube	0.25 mm aperture grille pitch, 17 inches measured diagonally (16.0" viewable), 90-degree deflection, AR coating
Viewable image size	Approx. 327 × 241 mm (w/h) (12 7/8 × 9 1/2 inches) 16.0" viewing image
Max resolution	Horizontal: Max. 1280 dots Vertical: Max. 1024 lines
VESA standards	640 × 480 at 85 Hz 800 × 600 at 85 Hz 1024 × 768 at 85 Hz 1280 × 1024 at 60 Hz
Deflection frequency	Horizontal: 30 to 70 kHz Vertical: 50 to 120 Hz
Speaker	Left, right: 3.5 W x 2, Sub-woofer: 10 W 50 – 20 kHz
Microphones	Uni-direction, electret condenser microphone
Microphones output	Miniplug
Audio input	Stereo miniplug, input impedance 47 kΩ, input level 0.7 Vrms typical
Headphones output	Stereo minijack, 4 mW + 4 mW at 16 Ω
Microphones input	Minijack, plug-in-power
USB pass-through	Upsteam × 1, downstream × 1
Controls	Contrast/Audio level/Picture enhancement/ Brightness/Bass Boost/(Audio level)/H.Size/V.Size/ Pincusion/Color tempeature/Audio muting
AC input voltage/current	100 to 240 V, 50 – 60 Hz, 1.5 – 0.5 A
Dimensions	Approx. 481.5 × 483 × 427.5 mm (w/h/d) (19 × 19 1/8 × 16 7/8 inches)
Mass	Approx. 22 kg (48 lb 8 oz)

Design and specifications are subject to change without notice.

TRINITRON® MULTIMEDIA COMPUTER DISPLAY

SONY®

MICROFILM

997857601

DIAGNOSIS

Failure	Power LED	Mute LED
Scan/S cap Failure	Blink Amber (On 1.5 sec, Off 0.5 sec)	———
ABL Failure	Blink Amber (On 0.5 sec, Off 1.5 sec)	———
Audio Failure	Blink Amber (1 sec/cycle)	Blink Amber (1 sec/cycle)

Aging Mode : Raster aging — During Power Save, press "POWER switch" button for longer than 4 seconds.
Self Test : OSD color-bar indication — During Power Save, press "POWER switch" button for longer than 8 seconds.

TIMING SPECIFICATION

PRIMARY MODE / MODE AT PRODUCTION	MODE 1	MODE 2	MODE 3	PRIMARY MODE 4	MODE 5	MODE 6	MODE 7	MODE 8	MODE 9	MODE 10
RESOLUTION	640 X 480	800 X 600	800 X 600	1024 X 768	1024 X 768	1280 X 1024	640 X 400	640 X 480	1152 X 864	1152 X 432
CLOCK	36.000 MHz	40.000 MHz	49.500 MHz	78.750 MHz	94.500 MHz	108.500 MHz	25.175 MHz	25.175 MHz	80.000 MHz	65.000 MHz
— HORIZONTAL —										
H-FREQ	43.269 kHz	37.879 kHz	46.875 kHz	60.023 kHz	68.677 kHz	63.974 kHz	31.469 kHz	31.469 kHz	54.945 kHz	44.890 kHz
	usec	usec	usec	usec	usec	usec	usec	usec	usec	usec
H. TOTAL	23.111	26.400	21.333	16.660	14.561	15.631	31.778	31.778	18.200	22.277
H. BLK	5.333	6.400	5.172	3.657	3.725	3.834	6.356	6.356	3.800	4.554
H. FP	1.556	1.000	0.323	0.203	0.508	0.590	0.636	0.636	0.800	1.354
H. SYNC	1.556	3.200	1.616	1.219	1.016	1.180	3.813	3.813	1.400	1.969
H. BP	2.222	2.200	3.232	2.235	2.201	2.065	1.907	1.907	1.600	1.231
H. ACTIV	17.778	20.000	16.162	13.003	10.836	11.797	25.422	25.422	14.400	17.723
— VERTICAL —										
V. FREQ(Hz)	85.008 Hz	60.317 Hz	75.000 Hz	75.029 Hz	84.997 Hz	60.013 Hz	70.086 Hz	59.940 Hz	59.984 Hz	94.804 Hz
	lines	lines	lines	lines	lines	lines	lines	lines	lines	lines
V. TOTAL	509	628	625	800	808	1066	449	525	916	473.5
V. BLK	29	28	25	32	40	42	49	45	52	41.5
V. FP	1	1	1	1	1	1	12	10	6	15
V. SYNC	3	4	3	3	3	3	2	2	5	4.5
V. BP	25	23	21	28	36	38	35	33	41	22
V. ACTIV	480	600	600	768	768	1024	400	480	864	432
— SYNC —										
INT(G)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
EXT(H/V)/POLARITY	YES -/-	YES +/+	YES +/+	NO +/+	YES +/+	YES +/+	YES -/+	YES -/-	YES +/+	YES +/+
EXT(CS)/POLARITY	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	INT

97.2.18 VER.

Power Saving Function

This display meets the power saving guidelines set by the International ENERGY STAR Program. It is capable of reduced power consumption when used with a computer equipped with Display Power Management Signaling (DPMS). By sensing the absence of the sync signal coming from the computer, it will reduce the power consumption as follows:

✔ CAUTION
The Power Saving function will automatically put the display into Active-off state if the power switch is turned on without any video signal input. Once the horizontal and vertical syncs are sensed, the display will automatically return to its Normal operation state.

State		Power consumption	Required resumption time	⏻ Power indicator	Speaker
1	Normal operation	150 W (max)	—	Green	On
2	Suspend (1st step of power saving)	15 W (max)	Approx. 3 sec.	Green ⟷ Orange	Off
3	Active-off (2nd step of power saving)	10 W (max)	Approx. 10 sec.	Orange	Off
4	Power-off	Approx. 10 W[1)]	—	Off	Off

✔ Note
1) To lower the power consumption to 0 W, disconnect the power cord.

SAFETY CHECK-OUT
(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

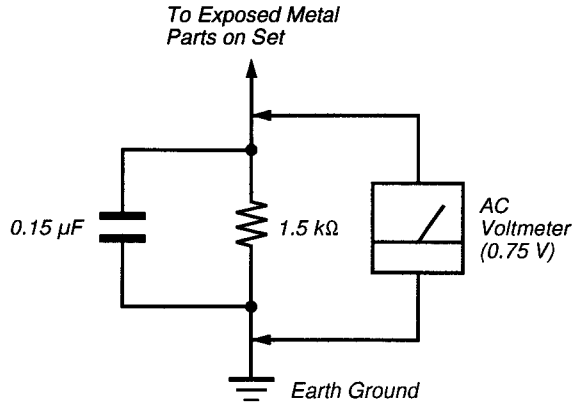


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

WARNING!!
NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!
NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNE-MENT EST SUSPECTÉ.

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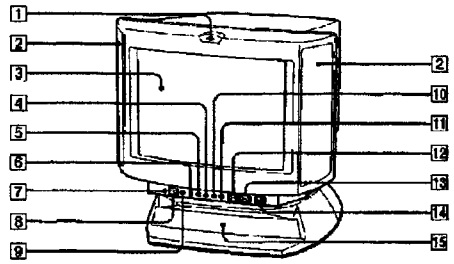
SECTION 1
GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

Functions of Controls

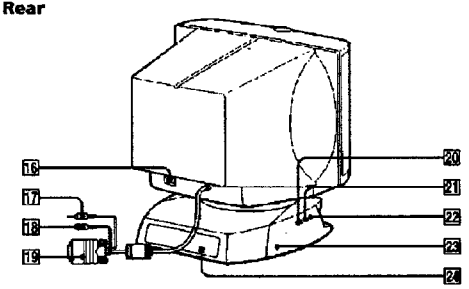
Front



1	**Microphone**	The internal microphone is turned off when an external microphone is connected.
2	**Main speaker**	—
3	**Display**	Displays OSD when adjusting.
4	**Size button**	Adjusts picture size (page 19).
5	**Geometry button**	Adjusts pincushion and rotation (pages 20, 21).
6	**Color temperature button**	Adjusts color temperature (page 22).
7	**Reset switch**	Resets adjustments to factory setting (page 23).
8	**Mute button and indicator**	Mutes sound (page 16)
9	**Volume/Bass boost button**	Adjusts speaker volume or selects bass boost mode (page 25)
10	**Centering button**	Adjusts picture centering (page 18).
11	**Brightness/GPE button**	Adjusts picture brightness or selects GPE mode (page 24).
12	**Volume –/+ buttons**	Adjusts speaker volume (page 15). The default setting of the volume level is 30 %.
13	**Contrast –/+ button**	Adjusts picture contrast (page 16)
14	**Power switch and indicator**	Turns on and off the display.
15	**Sub woofer**	

Continued to the next page →

Rear



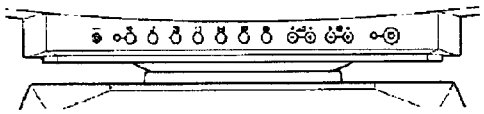
16	**AC IN connector**	Connect the supplied power cord (page 11).
17	**Audio plug (green)**	Connect to the computer's speaker output (page 10).
18	**MIC plug (red)**	Connect to the computer's microphone input (page 10)
19	**Video signal cable (blue)**	Connect to the computer's video output (page 10).
20	**USB downstream connector**	Connect to a USB device (page 10).
21	**Microphone jack**	Connect a microphone (not supplied).
22	**Headphones jack**	Connect headphones (not supplied). The speakers are turned off when headphones are connected.
23	**Tilt-Swivel**	Adjusts the angle of the display (page 13).
24	**USB upstream connector**	Connect to the computer's USB ports when using a USB (universal serial bus) device connected to the display (page 10).

Adjustments

When one of the preset-type signals is input, no picture adjustment is necessary.
You can, however, adjust the picture to your preference by following the procedure described below.

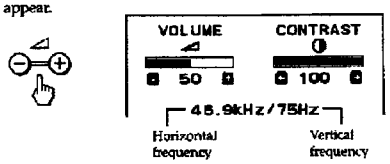
To adjust the display, turn on the display and computer.
Select the adjustment item. You can adjust all items via the OSD (On Screen Display).
Adjustments are automatically stored in the display's memory.

Control Panel

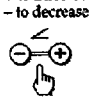


Adjusting volume

1. Press the + or – button.
   The VOLUME/CONTRAST OSD appears.
   The horizontal and vertical frequencies for each input signal received appear.



2. Press the +/– buttons to adjust volume.
   + to increase volume
   – to decrease volume



Continued to the next page →

The VOLUME/CONTRAST OSD disappears 3 seconds after you release the buttons.

Tips
- The default setting of the volume level is 30 %.
- Adjust the volume while listening to the sound.
- Excessively high volume may cause howling

To mute the sound

Press the button. The indicator lights. The light indicates mute function is in active mode.

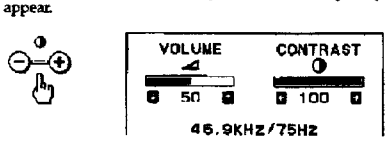
Press again to cancel muting.
You can cancel muting also by pressing the + button.

Tip
appears instead of on the VOLUME/CONTRAST OSD while the sound is muted.

Adjusting the picture contrast

The adjustment data becomes the common setting for all input signals.

1. Press the + or – button.
   The VOLUME/CONTRAST OSD appears.
   The horizontal and vertical frequencies for each input signal received appear.



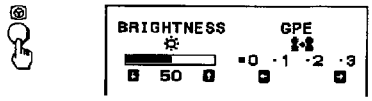
2. Press the ◑ +/– buttons to adjust the picture contrast.
   + for more contrast
   – for less contrast

The VOLUME/CONTRAST OSD disappears 3 seconds after you release the buttons.

Adjusting the picture brightness

The adjustment data becomes the common setting for all input signals.

1. Press the ◙ button.
   The BRIGHTNESS/GPE OSD appears.



2. Press the ◿ +/– buttons to adjust the picture brightness.
   + for more brightness
   – for less brightness

To exit the OSD

Press the ◙ button again.

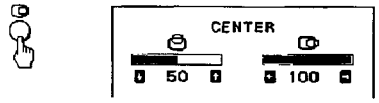
Tip

If you don't touch any buttons the OSD automatically disappears after 10 seconds.
When you want to adjust another item, press the button of the item. The OSD of the selected item appears.

Adjusting the picture centering

The adjustment data becomes the individual setting for each input signal received.

1. Press the ◳ button.
   The CENTER OSD appears



2. **For vertical adjustment**
   Press the ◿ +/– buttons.
   + to move up
   – to move down

For horizontal adjustment
Press the ◑ +/– buttons.
+ to move right
– to move left

To exit the OSD

Press the ◳ button again.

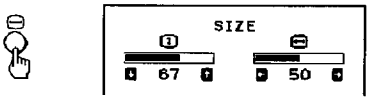
Tip

If you don't touch any buttons, the OSD automatically disappears after 10 seconds.
When you want to adjust another item, press the button of the item. The OSD of the selected item appears.

Adjusting the picture size

The adjustment data becomes the individual setting for each input signal received.

1. Press the ⊖ button.
   The SIZE OSD appears.



2. **For vertical adjustment**
   Press the ◿ +/– buttons.
   + to increase
   – to decrease

For horizontal adjustment
Press the ◑ +/– buttons.
+ to increase
– to decrease

To exit the OSD

Press the ⊖ button again.

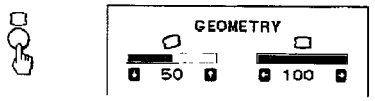
Tip

If you don't touch any buttons, the OSD automatically disappears after 10 seconds.
When you want to adjust another item, press the button of the item. The OSD of the selected item appears

Adjusting the picture rotation

The adjustment data becomes the common setting for all input signals.

1. Press the ◻ button.
   The GEOMETRY OSD appears.



2. Press the ◿ +/– buttons
   + to rotate clockwise
   – to rotate counterclockwise

To exit the OSD

Press the ◻ button again.

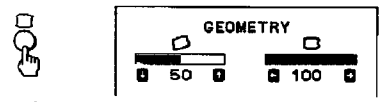
Tip

If you don't touch any buttons, the OSD automatically disappears after 10 seconds.
When you want to adjust another item, press the button of the item. The OSD of the selected item appears.

Adjusting the pincushion

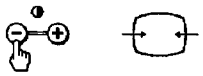
The adjustment data becomes the individual setting for each input signal received.

1. Press the ▢ button.
   The GEOMETRY OSD appears.



2. Press the ◑ +/– buttons.
   + to expand the picture sides

– to diminish the picture sides



To exit the OSD

Press the ▢ button again.

Tip

If you don't touch any buttons, the OSD automatically disappears after 10 seconds.
When you want to adjust another item, press the button of the item. The OSD of the selected item appears.

Resetting

■ To recall the factory settings for individual adjustment item

Press the button of the adjustment item you want to recall the factory settings, and then press the ↔ button immediately before the OSD disappears.

■ To recall the factory settings for the current mode

Press the ↔ button immediately when no OSD is shown.

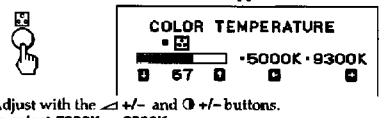
■ To recall the factory settings for all modes

Press and hold the ↔ button for 2 seconds.
All adjustments return to the factory settings.

Setting the color temperature

The selected color temperature becomes the common setting for all input signals.

1. Press the ⊡ button.
   The COLOR TEMPERATURE OSD appears.



2. Adjust with the ◿ +/– and ◑ +/– buttons.
   To select 5000K or 9300K
   Press ◑ +/– buttons.
   The selected color temperature is indicated.
   + to select 9300K
   – to select 5000K

To obtain the desired color temperature between 5000K and 9300K

Press ◿ +/– buttons.
+ for higher temperature
– for lower temperature

Tip

The first press of ◿ + or – button recalls the color temperature which was obtained at the last adjustment.

To exit the OSD

Press the ⊡ button again.

Tip

If you don't touch any buttons, the OSD automatically disappears after 10 seconds.
When you want to adjust another item, press the button of the item. The OSD of the selected item appears.

Troubleshooting

This section may help you isolate a problem and as a result, eliminate the need to contact technical support, allowing continued productivity.

No picture

If the ⏻ indicator is not lit

- → Check that the power cord is properly connected.
- → Check that the ⏻ switch is in the "ON" position.

If the ⏻ indicator is lit in orange, or alternately in orange and green

- → Check that your computer power switch is in the "ON" position.
- → The display may recover when you press any key on the keyboard or the computer.
- → Check that the video cable is properly connected.
- → Ensure that no pins are bent or pushed in the HD15 connector of the cable.
- → Check that the video card in your computer is seated completely in a proper bus slot.
- → Check that the video sync signal is within that specified for the display.
- → This display has a self-diagnostics function. To activate the function, turn off the computer and the display. Press and hold the ⏻ switch of the display for about 8 seconds. If the display is operating correctly, the screen will become white first and then the color bars will appear.

If the ⏻ indicator is flashing in orange

- → Check that the video sync signal is specified for the display.
- → There is a potential display failure. Contact Sony Technical Support.

No sound from speaker

If the 🔇 indicator is lit

- → Press the 🔇 button to cancel muting.

- → Check that the audio plug is properly connected.
- → Adjust the volume with 🔊 +/– buttons.
- → Check that the headphones are not connected.
- → Check that the sound board of the computer is properly connected.
- → Check that the volume control, muting, sound selector, etc. of the sound board. (See the computer's manual.)

Microphone mixing is not possible

- → Check that the MIC plug is properly connected.
- → Check that the sound board of the computer is properly connected.
- → Check that the microphone control, sound selector, etc. of the sound board. (See the computer's manual.)

Howling (feed-back) is heard

- → Decrease the volume with 🔊 +/– buttons, or turn down the microphone input volume of the sound board.

Picture is scrambled

- → Check your graphics board manual for the proper display setting on the display.
- → Check this manual and confirm that the graphic mode and the frequency at which you are trying to operate is supported. Even within the proper range, some video boards may have a sync pulse that is too narrow for the display to sync correctly.

Color is not uniform

- → Trip the ⏻ switch once to activate the Auto-degauss cycle*.

Picture is flickering

- → If the refresh rate is not appropriate, the picture may flicker. Set the refresh rate of the non-interlace mode as high as possible on the computer. For details on how to set the refresh rate, consult the dealer of your computer or video board.

Screen image is not centered or sized properly

- → Adjust picture centering, size, or geometry (rotation/ pincushion) on the OSD (pages 18–21).
- → Some video modes do not fill the screen to the edge of the display. There is no single answer to solve the problem. There is a tendency for this problem to occur on higher refresh timings.

Picture is fuzzy

- → Adjust the contrast and brightness on the OSD (pages 16, 17). Some brands of SVGA boards have an excessive video output level which creates a fuzzy picture at maximum contrast.
- → The GPE setting may not be proper for the picture. Selecting a lower GPE number may improve the picture (page 24).
- → Trip the ⏻ switch once to activate the Auto-degauss cycle*.

Picture bounces or has wavy oscillations

- → Isolate and eliminate any potential sources of electric or magnetic fields. Common causes for this symptom are electric fans, fluorescent lighting, laser printers, etc.
- → If you have another display close to this display, increase the distance between them to reduce interference.
- → Try plugging the display into a different AC outlet, preferably on a different circuit.

Picture appears to be ghosting

- → Eliminate the use of video extension cables and/or video switch boxes if this symptom occurs. Excessive cable length or weak connections can produce this symptom.

Continued to the next page →

Fine horizontal lines (wires) are visible

- → These wires stabilize the vertically striped Aperture Grille. The Aperture Grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.

Wavy or elliptical (moire) pattern is visible

- → Due to the relationship between resolution, display Aperture Grille pitch and the pitch of some image patterns, certain screen backgrounds, especially gray, sometimes show moire which looks like wavy lines. This can only be eliminated by changing your desktop pattern.

Hum is heard right after the power is turned on

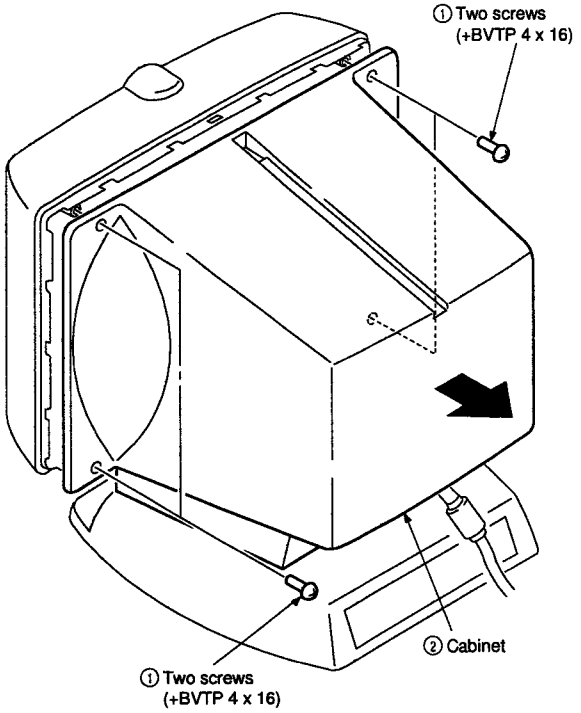
- → When the power is turned on, the Auto-degauss cycle* is activated. While the Auto-degauss cycle is activated, a hum may be heard for about 3 seconds. This is not a malfunction.

* The Auto-degauss function demagnetizes the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result.

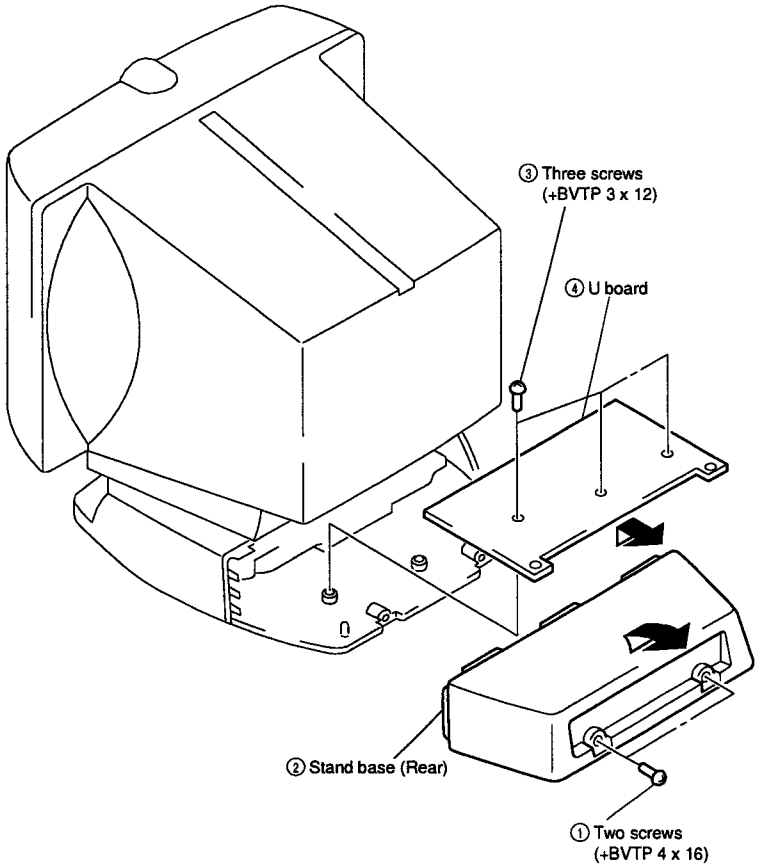
- If the problem persists, call your authorized Sony dealer from a location near you, or call Sony Technical Support at 1-888-4SONYPC (1-888-476-6972).
- Note the model name and the serial number of your display. Also note the make and name of your computer and video board.

SECTION 2
DISASSEMBLY

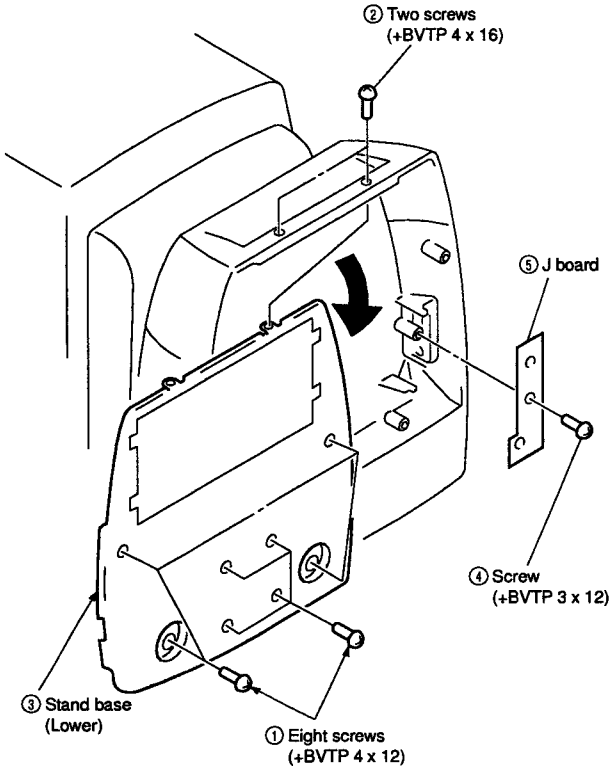
2-1. CABINET REMOVAL



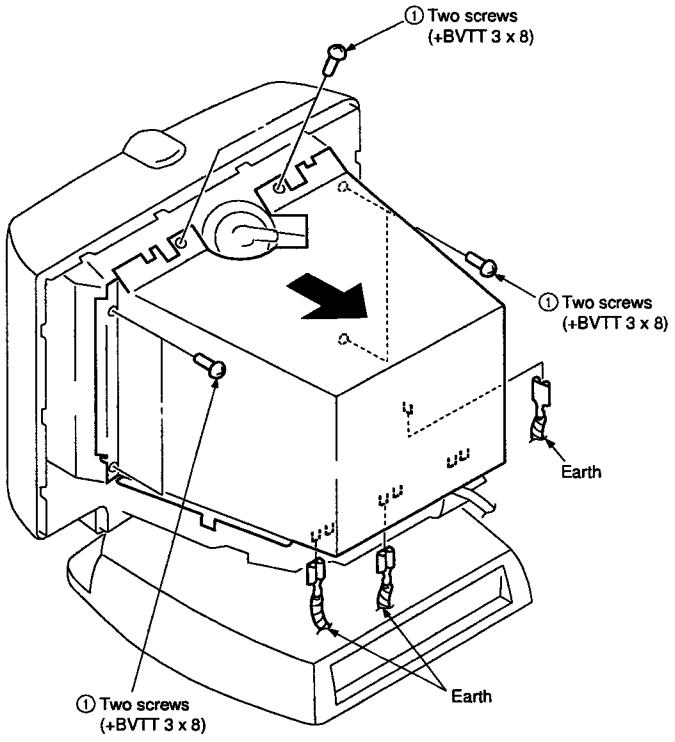
2-2. U BOARD REMOVAL



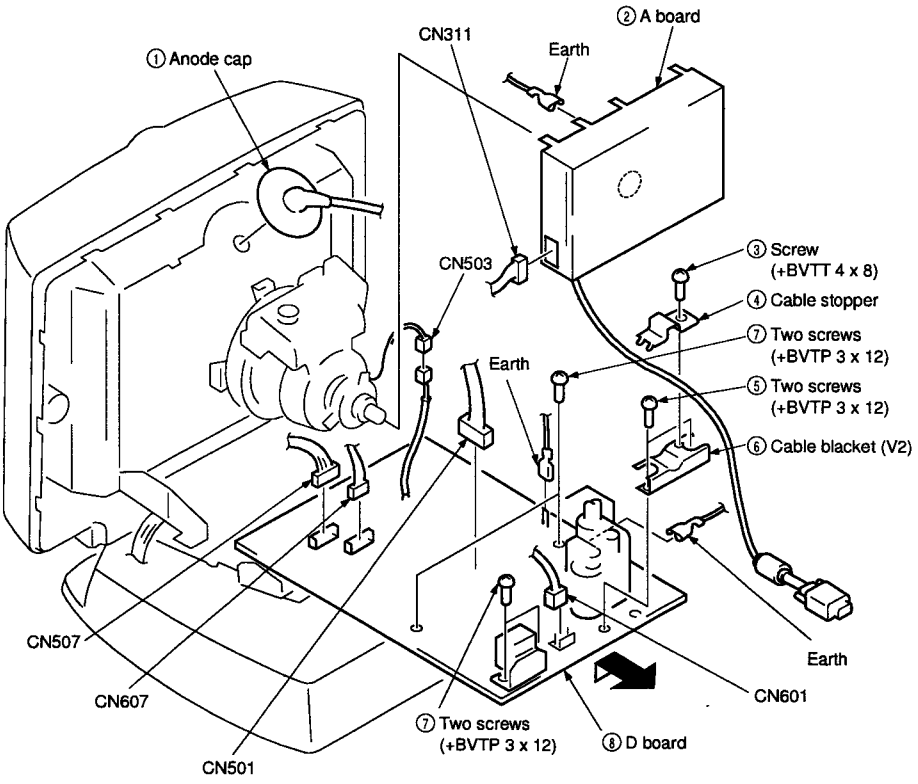
2-3. J BOARD REMOVAL



2-4. EMI SHIELD REMOVAL



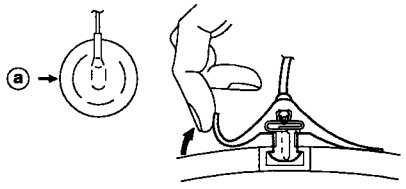
2-5. D BOARD REMOVAL



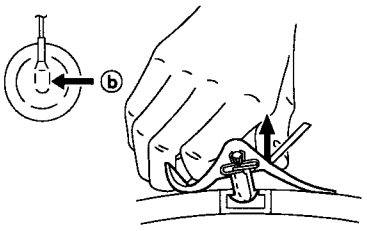
• REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

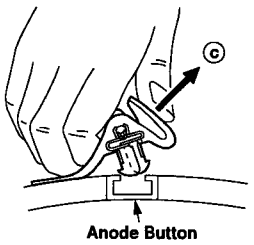
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



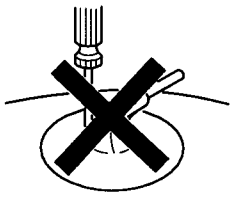
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

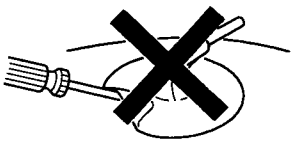


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

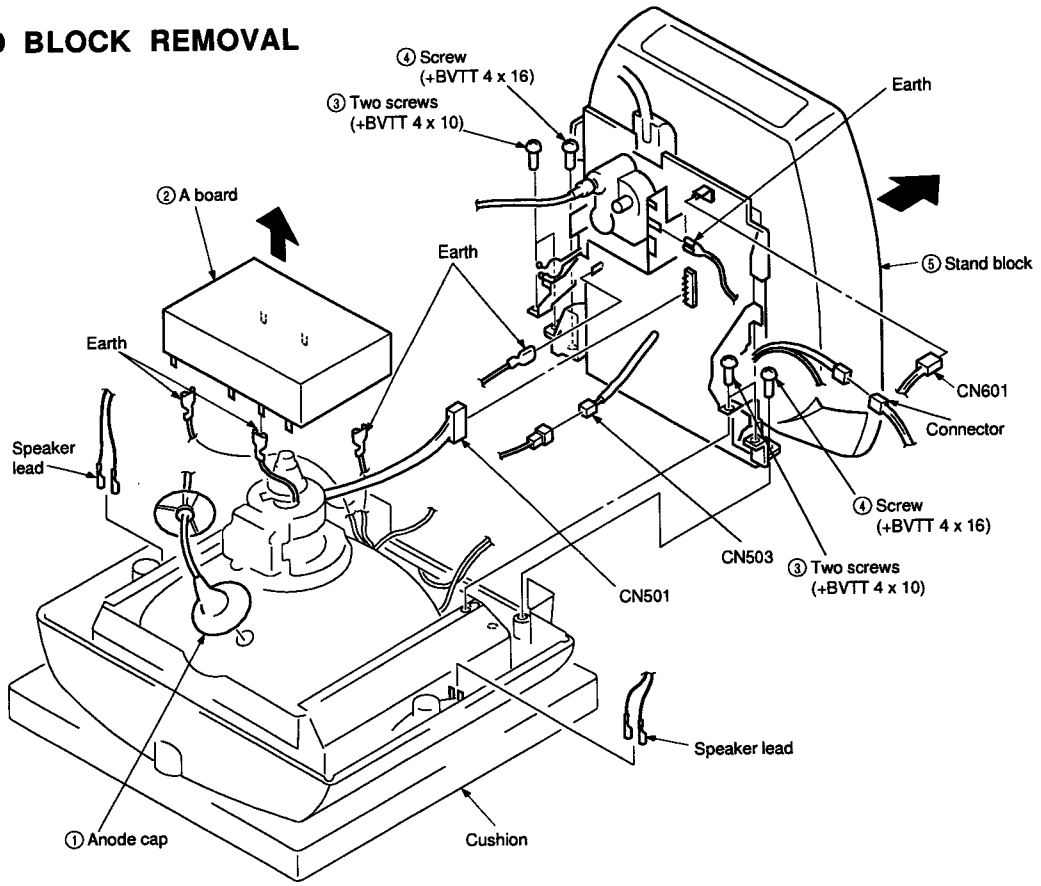
• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with shartp shaped material!
② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.

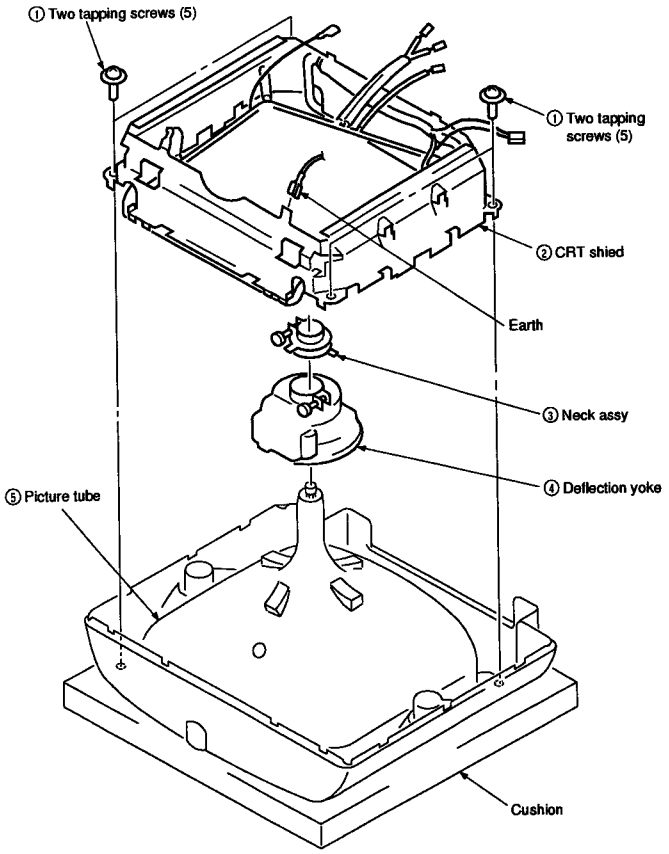




2-6. STAND BLOCK REMOVAL



2-7. PICTURE TUBE REMOVAL



SECTION 3
SAFETY RELATED ADJUSTMENT

When replacing or repairing the shown below table, the following operational checks must be performed as a safety precaution against X-rays emissions from the unit.

	Part Replaced (⊠)
HV ADJ	RV501

	Part Replaced (◪)
HV Regulator Circuit	D board IC801, C509, C542, C548, C802, C814, C815, R538, R539, R540, R541, R807, R822, R823, R824, RV501, T501 (FBT)
HV Protector Circuit	D board IC801, IC904, D511, D515, C515, C516, C517, C910, R532, R533, R534, R535, R996, T501 (FBT) • Mounted D board
Beam Current Protector Circuit	D board IC901, D596, C519, C528, C549, C904, R542, R543, R544, R545, R939 • Mounted D board

* Confirm one minute later turning on the power.

• HV Protector Circuit Check

Confirm that the HV protector circuit works and CRT screen disappearing when apply the voltage as shown below between Cathode of D511 on D board and GND using an external DC Power Supply.

• Standard voltage : $35.00^{+0.00}_{-0.10}$ V DC

Check Condition

• Input voltage : 240.0 ± 2.0 V AC
• Input signal : Cross hatch at 64.0 kHz (VESA 1024 x 768)
• Beam control : CONT : 100 %, BRT : 40 %

• Beam Current Protector Check

Using an external DC Power Supply, applying voltage of 7.00 ± 0.05 V between ⑪ pin of FBT (T501) and GND, and confirm that the vlotage of both ends C519 is with in the Voltage range shown below.

• Standard voltage : Less than 3.26 V DC

Check Condition

• Input voltage : 240.0 V AC
• Input signal : Cross hatch at 64.0 kHz (VESA 1024 x 768)
• Beam control : CONT : 100 %, BRT : 40 %

• B+ Voltage Check

Standard voltage : 150.0 ± 2.0 V DC

Check Condition

• Input voltage : 240.0 ± 2.0 V AC
Note : Use NF power supply or make sure that distortion factor is 3% or less.
• Input signal : Cross hatch at 64.0 kHz
• Beam control : CONT : 100 %, BRT : 40 %

SECTION 4
ADJUSTMENTS

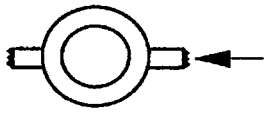
• Landing Rough Adjustment

1. Enter the full white signal. (or the full black dots signal)
2. Set the contrast to "CONT"=MAX.
3. Make the screen monogreen.

Note: Off the outputs from R ch and B ch of SG.

4. Reverse the DY, and adjust coarsely the purity magnet (2-pole Mg) so that a green raster positions in the center of screen.
   The 2-pole Mg adjustment must be done on the DY side (do not use 2-pole Mg on the neck assy side).

Note: Stack 2-pole Mg on neck assy side with their sides flushed.



Adjust color Knob to non-color Knob.

5. Moving the DY forward, adjust so that an entire screen becomes monogreen.
6. Adjust the tilt of DY, and fix lightly with a clamp.

Note: "TILT" shall be set at 0.

• Landing Fine Adjustment

1. Put the set inside the Helmholtz coil.
2. Input the single green signal.
   (Adjust to L/D control brightness)

   [L/D control brightness]
   Adjust L/D after aging for 2 hours with L/D control brightness
   (1) L/D control brightness ..... 1/2 between cool L/D and hot L/D (Reference : ΣIk = 200 uA)
   (2) Practical max brightness ..... 110 cd/m^2 ΣIk = 595 uA

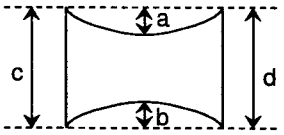
   [L/D control specification]
   In Y axis : ± 7.5 um
   At corners : ± 5.0 um
3. Demagnetize the CRT surface with the hand degausser , and perform auto degaussing.

Note: Adjust in a non-magnetic field.

4. Attach the wobbling coil to the designated part of the CRT neck.
5. Pull out the TLH correction piece up to the position where a stopper is engaged.
6. Attach the sensor of the landing adjustment unit on the CRT surface.
7. Adjust the DY position and purity, and the DY tilt.
   For the purity adjustment, use 2-pole Mg on DY side.
8. Fasten DY with screw.

Note: Torque 22 ±2kg·cm (2.2 ± 0.2 Nm)
Perform auto degaussing.

Fixing DY with wedges.

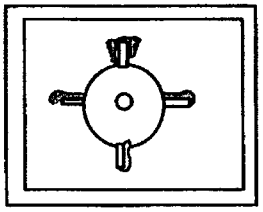


"a" and "b" must be equal, and "c" and "d" must be almost equal.

9. Adjust vertical swing with vertical pins, and also adjust horizontal swing so that horizontal keystone and vertical tilt are optimum, then fix with four wedges.
   (When fixing DY with wedges, insert wedges completely so that the DY does not shake.)

Note:
(1) Do not paste more than 2 magnets to one corner.
(2) Paste within 80 to 100 mm from the DY on the diagonal line of the magnet.

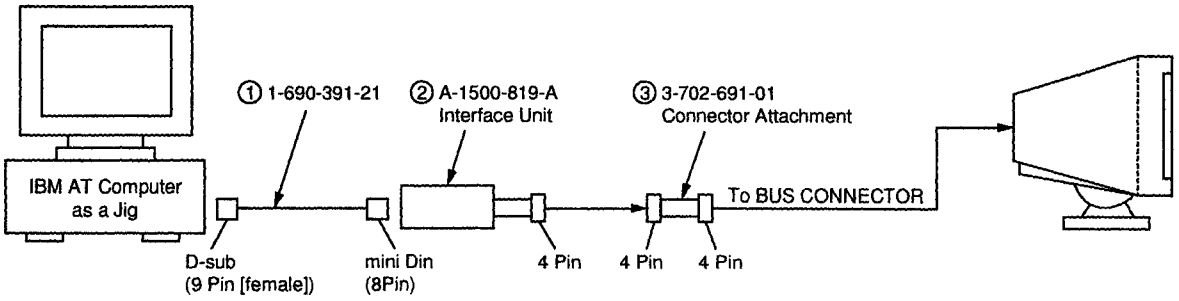
<How to drive in wedges>



Apply a locking agent to the upper wedges only.
In such a case, apply agent so that it enters both sides of wedge and also inside the DY.

10. Check the landing of each corner, and if they do not satisfy the specification, paste a Disk-Mg onto the funnel and adjust.
11. If using the magnet, be sure to demagnetize with the hand degausser and check.
12. Remove the sensor and wobbling coil.
13. Check that the DY is not tilting, and fix the purity Mg with a white pen.

Connect the communication cable of the computer to the connector located on the D board on the monitor. Run the service software and then follow the instruction.



*The parts above (① ~ ③) are necessary for DAS adjustment.

• Convergence Rough Adjustment

1. Enter the white crosshatch signal (white lines on black).
2. Adjust roughly the horizontal and vertical convergence at four-pole magnet.
3. Adjust roughly HMC and VMC at six-pole magnet.
   Standard: ± 0.1mm (In the center of screen)

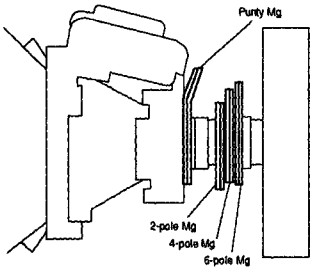


Fig. 1

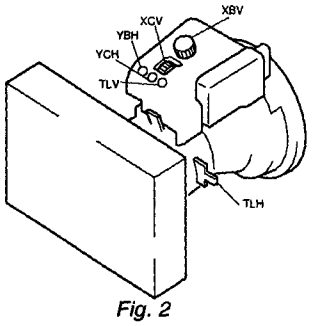
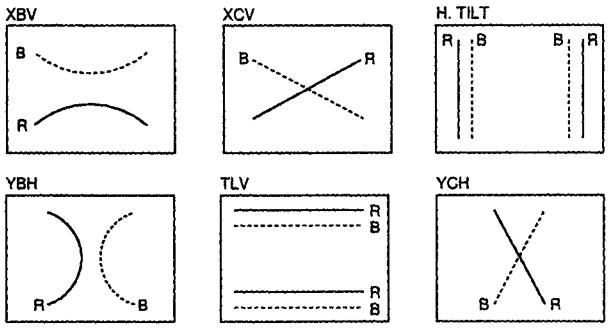


Fig. 2



<6 Pole Magnet>

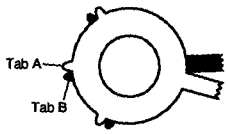


Fig. 3

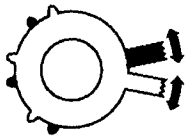


Fig. 4

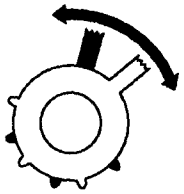
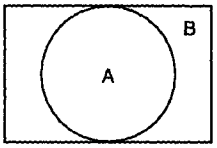


Fig. 5

• Convergence Specification

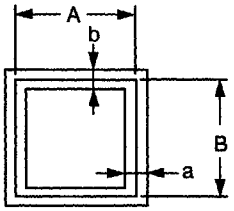


MODE	All mode
A	0.24 mm
B	0.32 mm

• White Balance Adjustment Specification

(1) 9300K
x = 0.283 ± 0.008
y = 0.298 ± 0.008
(2) 5000K
x = 0.345 ± 0.008
y = 0.358 ± 0.008

• Vertical and Horizontal Position and Size Specification

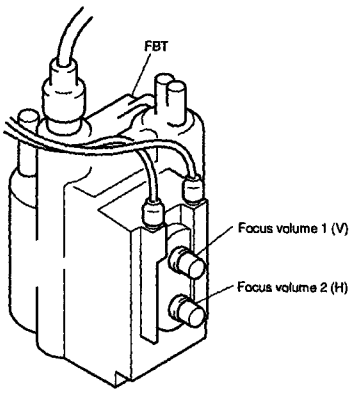


MODE	All mode
A	312 mm
B	234 mm

a ≦ 1.6 mm
b ≦ 1.6 mm

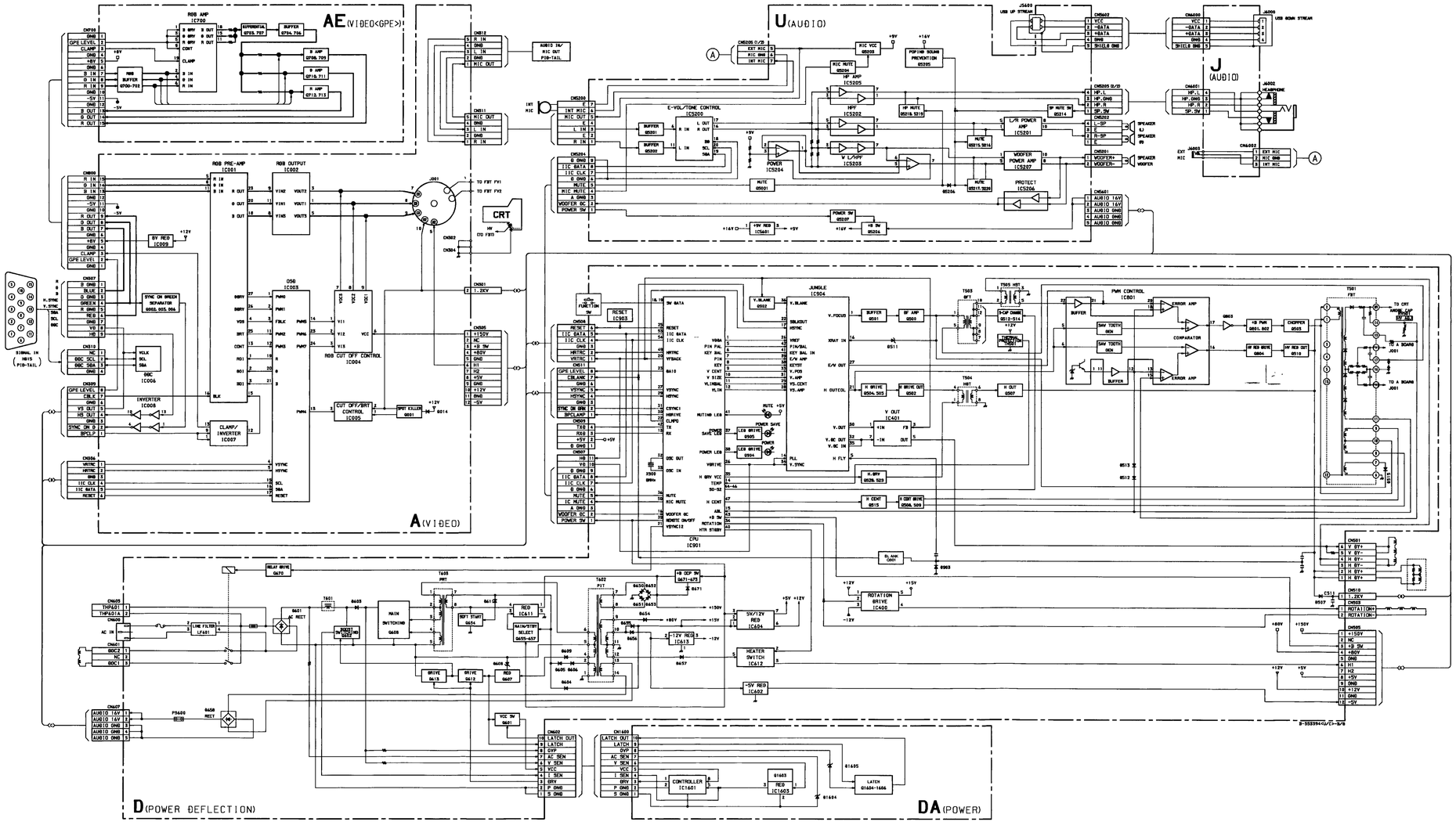
• Focus adjustment

Adjust the focus volume 1 and 2 for the optimum focus.
Standard: HMC, VMC ± 0.1 mm (In the center of screen)



SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM (with FRAME SCHEMATIC DIAGRAM)

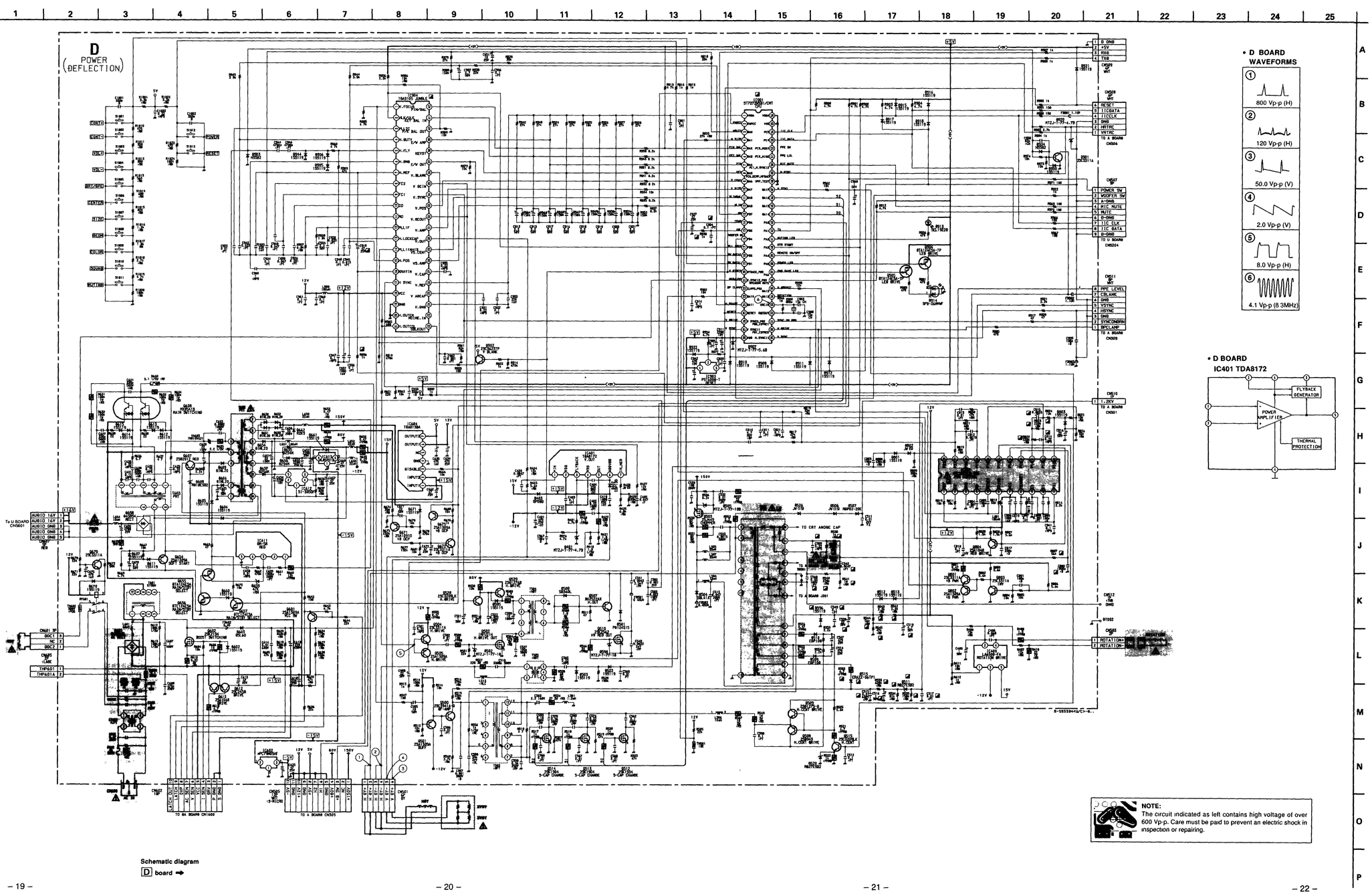

AE (VIDEO<GPE>)
U (AUDIO)
J (AUDIO)
A (VIDEO)
D (POWER DEFLECTION)
DA (POWER)
CRT
SIGNAL IN (MINI 15 PIN-TAIL)
AUDIO IN/ MIC OUT PIN-TAIL
RGB AMP IC700
RGB PRE-AMP IC001
RGB OUTPUT IC002
E-VOL/TONE CONTROL IC5200
HPF IC5202
W L/SPF IC5203
L/R POWER AMP IC5201
WOOFER POWER AMP IC5207
POWER IC5204
PROTECT IC5206
HP AMP IC5205
MIC VCC Q5230
MIC MUTE Q5231
POP/NOISE REDUCE PREVENTION Q5205
HP MUTE Q5215, Q5216
SP MUTE Q5214
MUTE Q5211, Q5212, Q5220
MUTE Q5201
BUFFER Q5201
BUFFER Q5202
POWER SW Q5207
+5V REG IC5601
+8 SW Q5204
SYNC ON GREEN SEPARATOR Q003, 005, 004
SYNC SEPARATOR IC006
INVERTER IC008
CLAMP/ INVERTER IC007
CUT OFF/BRT CONTROL IC005
RGB CUT OFF CONTROL IC004
SPOT KILLER Q001
+12V REG IC009
DSO IC003
JUNGLE IC904
RESET IC903
CPU IC901
V OUT IC401
V.BLANK Q902
V DRIVE Q501
V DEF Q901
E/W DRIVE Q504, 505
H DRIVE OUT Q502
H OUT Q507
H.BRY Q528, 529
H CENT Q515
H CBT DRIVE Q508, 509
PWM CONTROL IC801
ERROR AMP
COMPARATOR
SAW TOOTH GEN
+B PWR Q801, 802
CHOPPER Q505
HV RES DET Q804
HV DET Q510
TO CRT ANODE, G2, FOCUS PWB
TO A BOARD J001
TO A BOARD J001
+B OCP SW Q671-673
RELAY DRIVE Q670
MAIN SWITCHING Q628
SOFT START Q654
REG IC611
SW/STBY SELECT Q655-657
5V/12V REG IC604
12V REG IC613
HEATER SWITCH IC612
-5V REG IC602
ROTATION DRIVE IC400
CONTROLLER IC1601
REG IC1603
LATCH Q1604-1606
LINE FILTER LF601
AC RECT
VCC SW Q601
RELAY DRIVE Q670
DEGAUSS COIL
DEGAUSS RELAY
DEGAUSS THERMISTOR
DEGAUSS RECT
DEGAUSS PTC
DEGAUSS RECT
DEGAUSS RECT
DEGAUSS RECT

(1) Schematic Diagram of D Board

• D BOARD VOLTAGE LIST

Ref	Pin No	Voltage [V]
IC400	1	1.1
	2	1.1
	4	−0.2
IC401	1	1.1
	3	−11.8
	5	0.3
	6	13.4
	7	1.1
IC604	3	4.1
IC611	1	134.9
	3	2.4
	4	11.4
IC612	2	5.1
	3	6.4
	4	5.1
	5	7.3
IC801	1	6.0
	2	9.0
	4	6.6
	5	0.7
	6	4.9
	8	7.0
	9	4.1
	10	5.1
	11	5.9
	12	6.0
	13	6.0
	14	6.8
	15	6.0
	16	7.9
	17	2.5
	18	4.6
	19	5.3
	20	4.6
	21	5.0
	22	5.0
IC901	1	8.1
	2	2.0
	3	1.9
	4	3.1
	5	3.3
	6	2.9
	7	3.2
	8	2.7
	9	2.5
	10	2.7
	11	2.7
	12	2.6
	13	5.1
	14	1.9
	15	4.2
	16	1.0
	17	5.1
	18	5.0
	19	5.0
	20	−0.4
	21	0
	22	5.1
	23	0
	24	3.4
	25	5.1
	26	0.1
	27	4.4
	29	4.5
	30	0.7
	31	0.7
	32	1.9
	33	2.4
	34	2.6
	35	1.4
	36	0.1
	37	5.1
	38	0
	39	4.1
	40	5.1
	41	3.9
	42	5.1
	43	0.7
	44	5.1
	45	5.1
	46	5.1
	47	1.3
	49	1.0
	50	0
	51	0
	52	4.7
	53	4.7
	54	4.6
IC903	2	5.1
IC904	1	5.5
	2	5.1
	3	3.4
	4	2.0
	5	0.3
	6	0
	7	8.0
	8	1.6
	9	6.4
	10	4.0
	11	2.8
	12	2.8
	13	8.0
	14	0.1
	15	4.2
	16	5.7
	17	0.6
	21	4.8
	22	4.6
	24	0
	25	5.1
	26	8.1
	27	3.5
	28	3.7
	29	3.8
	30	3.5
	31	4.0
	32	3.5
	33	4.1
	34	0.1
	35	3.5
	36	0.1

Ref	Pin No	Voltage [V]
	37	2.9
	38	3.7
	39	4.1
	40	4.1
	41	3.9
	42	4.2
Q500	B	1.7
	C	71.5
	E	1.2
Q501	B	1.1
	E	1.7
Q502	B	−0.2
	C	70.4
Q503	G	147.1
	D	48.9
Q504	B	4.8
	E	4.9
Q505	B	4.8
	E	5.0
Q507	B	−0.5
	C	49.0
Q508	B	52.9
	C	38.3
	E	51.7
Q509	B	52.8
	C	57.1
	E	51.7
Q510	G	7.9
	D	8.3
Q512	G	5.1
	D	0
Q513	G	5.1
	D	0
Q514	G	5.1
	D	0
Q515	B	1.3
	C	52.8
	E	0.7
Q528	B	1.3
	C	72.1
	E	0.8
Q529	B	72.1
	E	70.9
Q601	B	14.2
	E	14.9
Q602	G	9.4
	D	92.9
	S	0.1
Q607	B	18.0
	C	29.1
	E	17.4
Q608	1(C1)	186.8
	2(B1)	−1.3
	4(C2)	186.8
	5(B2)	185.5
	6(E2)	376.0
Q612	B	9.7
	C	17.4
	E	9.4
Q613	B	9.6
	C	0
	E	9.5
Q654	B	11.0
	E	11.4
Q655	B	13.9
	C	2.5
	E	13.9
Q656	B	0
	C	13.9
Q657	B	4.1
	C	0
Q670	B	0
	C	12.1
Q671	B	148.6
	C	0
	E	149.1
Q672	B	0
	C	4.1
Q673	B	4.1
	C	0
	E	4.1
Q801	B	8.0
	E	7.9
Q802	B	8.0
	E	7.9
Q803	B	0.3
	C	8.1
Q804	B	7.9
	E	7.8
Q901	B	*
	C	*
Q902	B	−0.4
	E	0.1
Q904	B	0.1
	C	5.0
Q905	B	5.1
	C	−0.6



• D BOARD WAVEFORMS

• D BOARD IC401 TDA8172

• D BOARD SEMICONDUCTOR LOCATION

IC		
IC400	B-5	
IC401	B-4	
IC602	C-4	
IC604	C-4	
IC611	E-6	
IC612	D-6	
IC613	C-4	
IC801	A-6	
IC901	C-6	
IC903	B-6	
IC904	B-6	
TRANSISTOR		
Q500	A-3	
Q501	A-4	
Q502	C-2	
Q503	C-1	
Q504	A-5	
Q505	A-5	
Q507	B-3	
Q508	A-1	
Q509	A-1	
Q510	B-3	
Q512	A-4	
Q513	A-4	
Q514	A-5	
Q515	A-1	
Q528	C-3	
Q529	C-3	
Q601	E-4	
Q602	E-3	
Q607	E-5	
Q608	E-4	
Q612	D-3	
Q613	D-3	
Q654	E-6	
Q655	E-6	
Q656	E-6	
Q657	E-6	
Q670	D-2	
Q671	C-3	
Q672	C-5	
Q673	C-5	
Q801	A-5	
Q802	A-5	
Q803	A-6	
Q804	A-5	
Q901	E-6	
Q902	B-5	
Q904	E-6	
Q905	E-6	
DIODE		
D401	B-4	
D402	B-4	
D403	C-5	
D501	C-3	
D502	C-2	
D503	B-4	
D504	C-1	
D505	C-1	
D507	C-2	
D508	C-2	
D509	B-1	
D510	B-1	
D511	A-3	
D512	A-5	
D513	A-5	
D515	B-1	
D520	A-1	
D522	B-4	
D595	C-3	
D596	B-2	
D598	B-3	
D601	D-2	
D602	D-3	
D603	D-3	
D604	E-6	
D605	E-5	
D606	E-5	
D607	E-6	
D608	E-5	
D609	E-5	
D611	E-6	
D612	E-4	
D613	E-4	
D614	E-4	
D615	E-4	
D650	D-4	
D651	C-4	
D652	D-4	
D653	D-4	
D654	D-4	
D655	D-5	
D656	D-5	
D657	D-6	
D658	D-5	
D659	E-6	
D660	E-6	
D661	C-4	
D662	D-4	
D670	D-2	
D671	C-3	
D801	A-7	
D803	A-5	
D900	C-6	
D903	B-5	
D905	A-6	
D906	A-5	
D907	B-7	
D908	E-7	
D910	E-7	
D911	E-6	
D912	E-6	
D913	A-7	
D914	E-7	
D915	D-6	
D916	D-6	
D917	E-6	
D918	E-6	
D920	D-6	
D921	D-6	
D922	B-6	
D934	C-6	
D944	A-5	
VARIABLE RESISTOR		
RV501	A-1	
CRYSTAL		
X900	C-6	

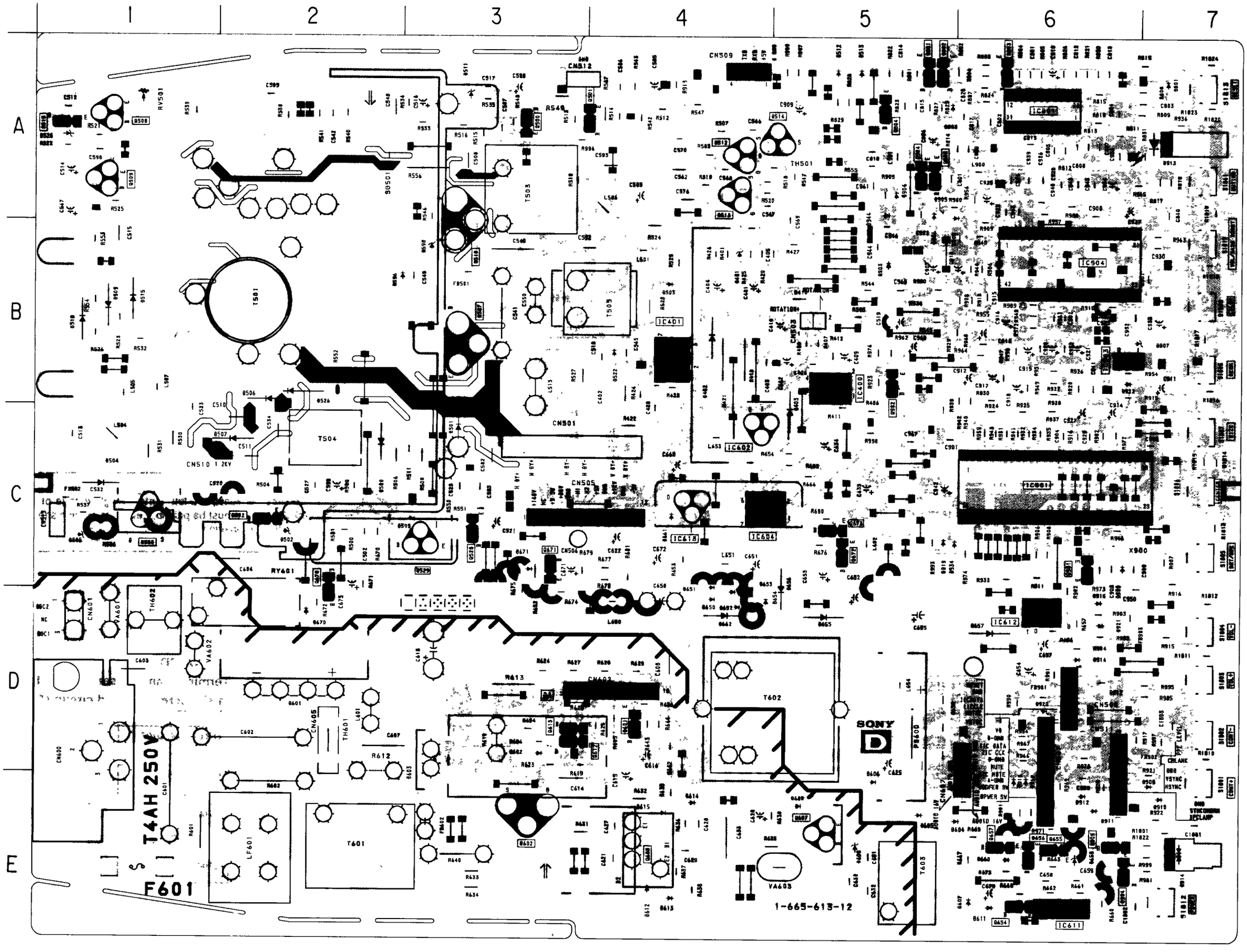
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

Schematic diagram
D board ➡

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 18)

D [POWER DEFLECTION]

— D BOARD —



A [VIDEO] AE [VIDEO (GPE)]

- **A BOARD SEMICONDUCTOR LOCATION**

IC		
IC001	A-2	
IC002	A-3	
IC003	A-1	
IC004	B-4	
IC005	B-4	
IC006	C-2	
IC007	B-1	
IC008	B-1	
IC009	A-1	

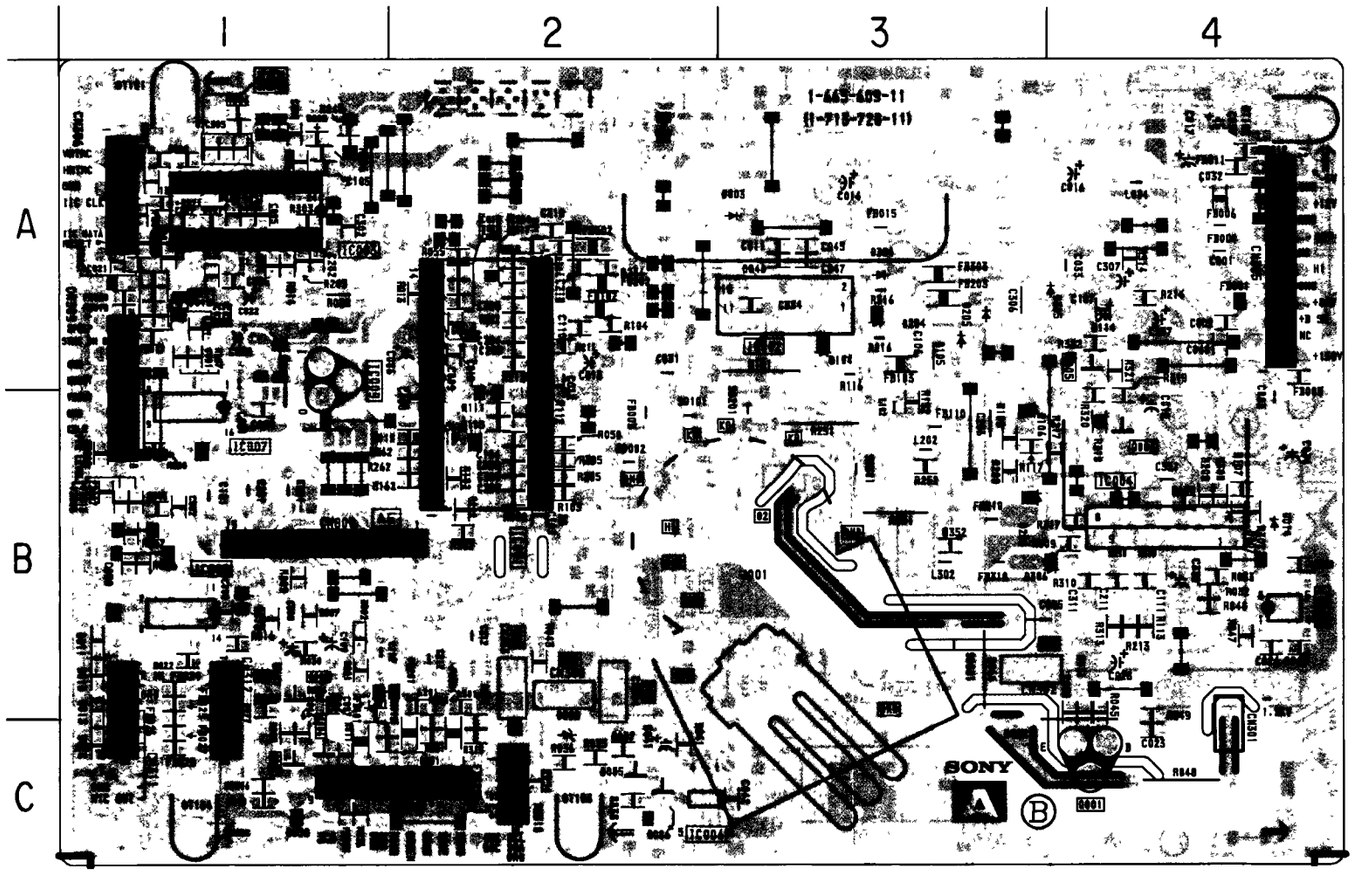
TRANSISTOR		*
Q001	C-4	–
Q002	C-1	①
Q003	B-1	①
Q006	C-1	①

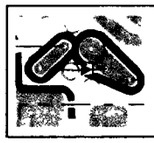
DIODE		*
D002	B-1	③
D009	C-2	–
D010	B-1	③
D011	B-1	③
D012	C-1	③
D013	B-1	③
D014	B-4	–
D057	B-1	–
D058	C-1	–
D104	A-3	–
D105	A-3	–
D106	B-3	–
D204	A-3	–
D205	A-3	–
D206	B-3	–
D304	A-3	–
D305	A-4	–
D306	B-4	–

CRYSTAL	
X1	A-1

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 18)

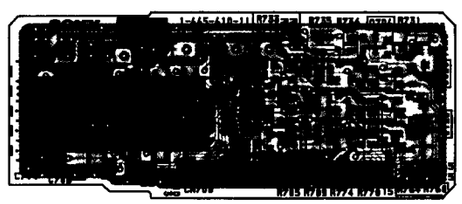
— A BOARD —



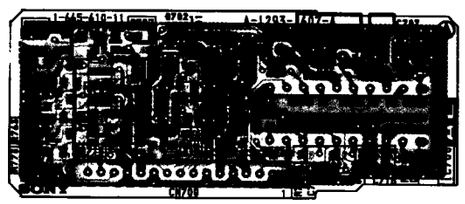


NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

— AE BOARD (Conductor Side) —



— AE BOARD (Component Side) —



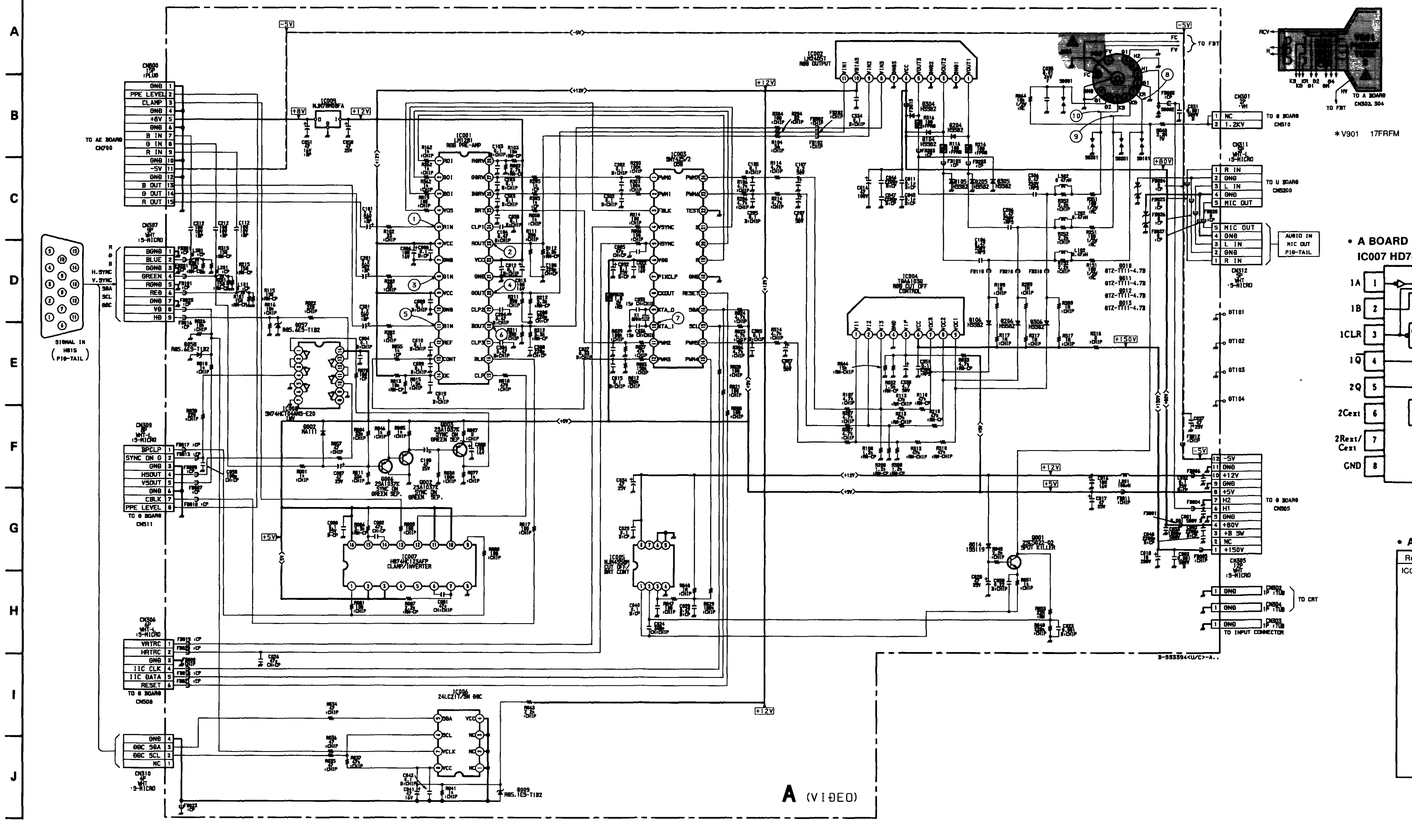
- Pattern from the side which enables seeing
- . Pattern of the rear side

AE BOARD
Terminal name of semiconductors in silk screen printed circuit (*)

Ref	*
Q700-Q704, Q707, Q709, Q711, Q713	②
Q706, Q708, Q710, Q712	①
Q700-D705, D707, D708	③
D706	⑩

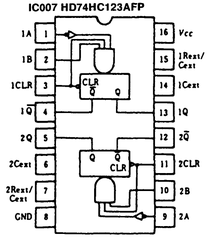
*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 18)

(2) Schematic Diagrams of A and AE Boards

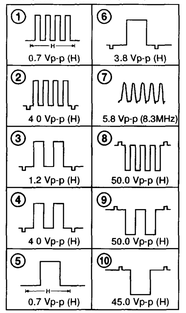


* V901 17FRFM

• A BOARD
IC007 HD74HC123AFP

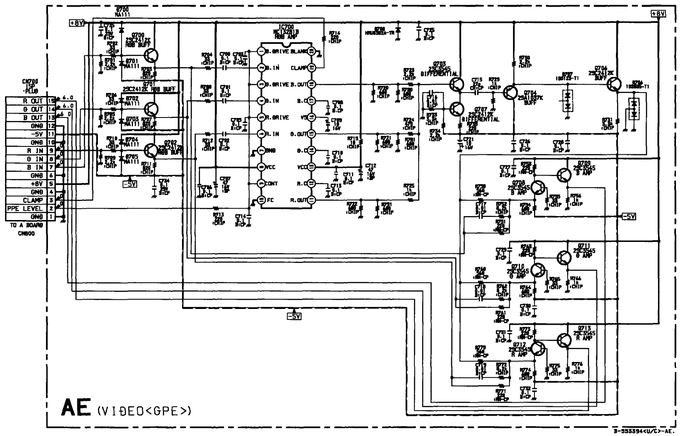


• A BOARD WAVEFORMS

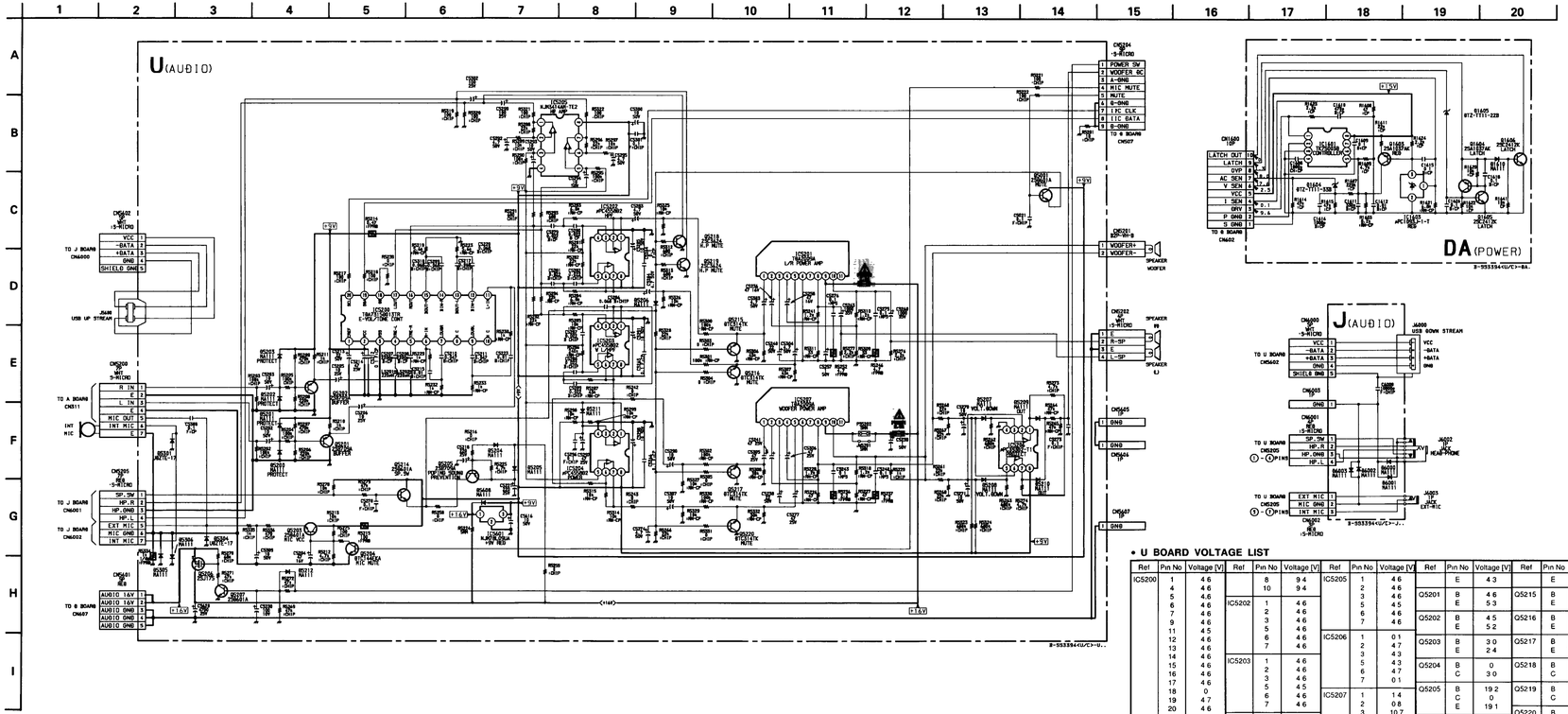


• A BOARD VOLTAGE LIST

Ref.	Pin No	Voltage [V]	Ref	Pin No	Voltage [V]	Ref	Pin No	Voltage [V]	Ref.	Pin No	Voltage [V]	Ref.	Pin No	Voltage [V]	Ref	Pin No	Voltage [V]
IC001	1	0	IC002	1	58.3		20	0		6	0		E	3.9			
	2	0		3	56.4		21	0		9	0.6						
	3	0		5	57.6		23	3.4		12	5.1	Q003	B	4.9			
	4	0		8	1.9		24	2.0		13	0.1		C	0.7			
	5	2.2		9	2.1					14	0	Q006	B	2.7			
	8	2.2		11	1.9	IC004	1	1.2		15	5.1		E	3.3			
	11	2.2	IC003	1	2.3		2	1.2	IC008	1	0.7	J001	XR	67.1			
	12	2.0		2	2.3		3	1.2		2	4.5		KG	58.5			
	13	2.3		3	0		5	1.1		3	4.5		KB	56.1			
	14	1.5		4	-0.4		7	87.7		4	0.7		G2	409.0			
	15	5.1		5	1.0		8	77.5		6	5.1		H1	6.3			
	16	4.6		9	2.4		9	75.6		8	5.1						
	17	6.5		10	2.1	IC005	1	10.7		10	4.5						
	18	2.0		11	1.3		2	2.8		11	0.6						
	19	6.5		12	3.4		3	2.8		12	0.6						
	20	1.9		13	1.9					13	3.7						
	23	2.1		14	3.7	IC006	5	-	Q001	B	11.5						
	24	6.4		15	4.6		6	3.6		C	410.0						
	25	0.9		16	4.7		7	4.2		E	11.0						
	26	2.3		17	5.1		8	3.7	Q002	B	3.3						
	27	2.3		19	0	IC007	1	0.7									
	28	2.6															



(3) Schematic Diagrams of DA, J and U Boards



• U BOARD VOLTAGE LIST

Ref	Pin No	Voltage [V]
IC5200	1	4.6
	4	4.6
	5	4.6
	6	4.6
	7	4.6
	9	4.6
	11	4.5
	12	4.6
	13	4.6
	14	4.6
	15	4.6
	16	4.6
	17	4.6
	18	0
	19	4.7
	20	4.6
IC5201	1	1.4
	2	0.8
	3	10.7
	4	0.8
	5	1.3
	8	9.4
	10	9.4
IC5202	1	4.6
	2	4.6
	3	4.6
	5	4.6
	6	4.6
	7	4.6
IC5203	1	4.6
	2	4.6
	3	4.6
	5	4.5
	6	4.6
	7	4.6
IC5204	1	4.6
	2	4.6
	3	4.6
	5	4.6
	6	4.6
	7	4.6

Ref	Pin No	Voltage [V]
IC5205	1	4.6
	2	4.6
	3	4.6
	5	4.5
	6	4.6
	7	4.6
IC5206	1	0.1
	2	4.7
	3	4.3
	5	4.3
	6	4.7
	7	0.1
IC5207	1	1.4
	2	0.8
	3	10.7
	4	0.8
	5	1.4
	8	9.4
	10	9.4
Q5001	B	4.9
	E	4.3
Q5201	B	4.6
	E	5.3
Q5202	B	4.5
	E	5.2
Q5203	B	3.0
	E	2.4
Q5204	B	0
	C	3.0
Q5205	B	19.2
	C	0
	E	19.1
Q5206	G	7.8
Q5207	B	0.6
	C	0
Q5214	B	0
Q5215	B	0.8
	E	0
Q5216	B	0.8
	E	0
Q5217	B	0.8
	E	0
Q5218	B	0.8
	C	0
Q5219	B	0.8
	C	0
Q5220	B	0.8
	E	0

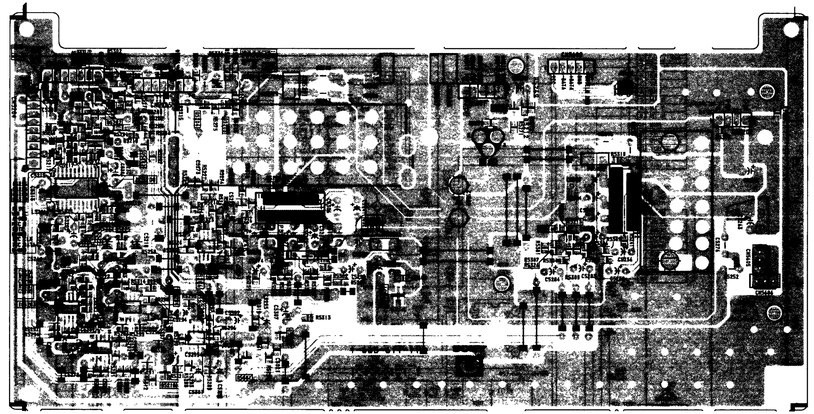
Schematic diagrams ← A AE boards

Schematic diagrams DA J U boards →

CPD-220VS CPD-220VS

DA [POWER] J [AUDIO] U [AUDIO]

— U BOARD —



— J BOARD —

— DA BOARD —

J BOARD
Terminal name of semiconductors in silk screen printed circuit (✻)

Ref	✻
D6000-D6003	③

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 18)

U BOARD
Terminal name of semiconductors in silk screen printed circuit (✻)

Ref.	✻
Q5001, Q5201-Q5205, Q5207, Q5214-Q5220	①
D5200-D5203, D5205-D5211, D5301, D5304-D5306, D5608	③

✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 18)

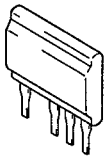
DA BOARD
Terminal name of semiconductors in silk screen printed circuit (✻)

Ref.	✻
Q1603-Q1606	①
D1604, D1605, D1610	③

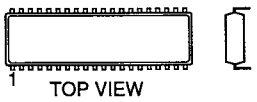
✻: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 18)

5-4. SEMICONDUCTORS

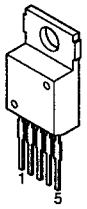
DM-58



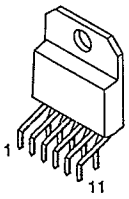
HD74HC123AFP-T1
HD74HC123AFP-T2
LM1281
MC13281B
µPC5023CS-095



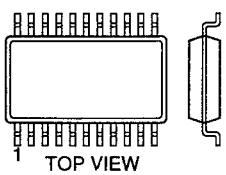
LA6500-FA



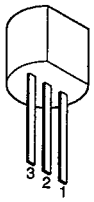
LM2405T



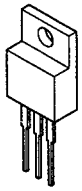
NJM3414AM-TE2
NJM4558M
SN74HCT04ANS
SN74HCT04ANS-E20
TDA7315D013TR
µPC393G2
µPC393G2-T1
µPC4558G2
µPC4558G2-T2
24LC21T/SN



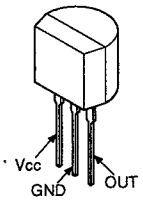
NJM78L09UA
TA78L09F-TE12L



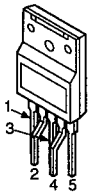
NJM78M08FA
NJM7912FA
µPC79M05HF



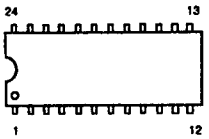
PST600D-T



SI-3050F



SNY425/2



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ST272N5B1/CNT

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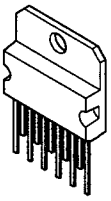

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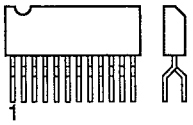
MARKING SIDE VIEW



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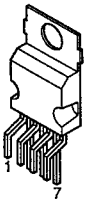

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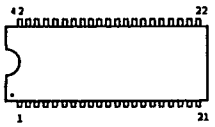

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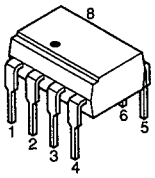

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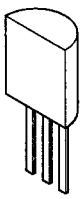

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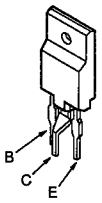

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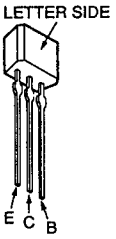
2SA1175-HFE
2SA1309A-QRSTA
2SC2785-HFE
2SC3623A-LK
2SC3623-LK
2SC3311A-QRSTA



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DTC314TKH04
DTC314TK-T-146
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2SA1037AK-T146-R
2SA1037K-T-146-QR
2SA1162G
2SB709A-QRS-TX
2SB709A-R
2SC1623-L5L6
2SC2412K-T-146-QR
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2SC3545-T43
2SC3624-L18
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2SD601A-Q
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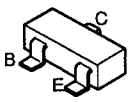

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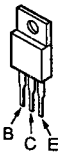

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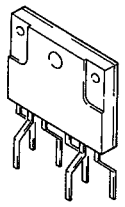

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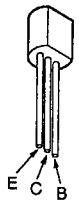
2SA1091O-E2
2SC3941A-Q



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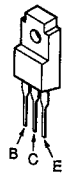

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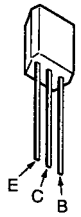

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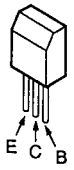

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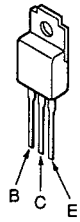

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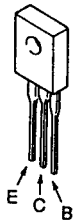

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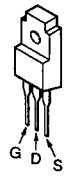

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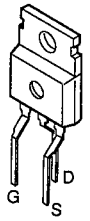

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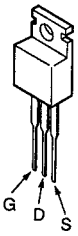
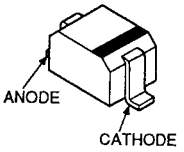


DTZ-TT11-22B
DTZ-TT11-33B
DTZ-TT11-4.7B
DTZ33B
DTZ4.7B
DTZ5.1B
UDZ-TE-17-5.1B
MA111-TX
MA111



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MTZJ-T-77-18
MTZJ-T-77-4.7B
MTZJ-T-77-5.6B
RD10ES-B2
RD18ES-B2
RD18ES-T1B2
RD27ES-B2
RD27ES-T1B2
RD5.1ES-B2
RD5.1ES-T1B2
RD5.6ES-B2
RD5.6ES-T1B2
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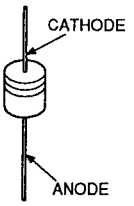
1SS119-25



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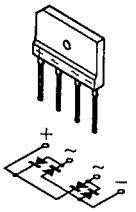

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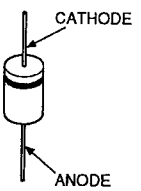
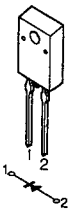


D5L6
D5L60



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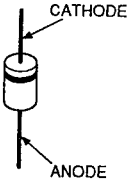

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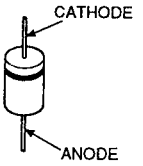

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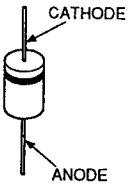

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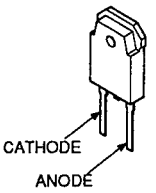

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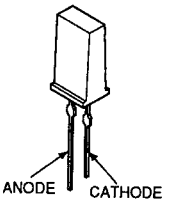
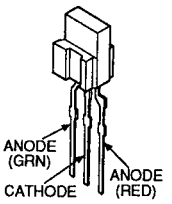
SEL1922D-C,D



SPB-26MVWF



SECTION 6
EXPLODED VIEWES

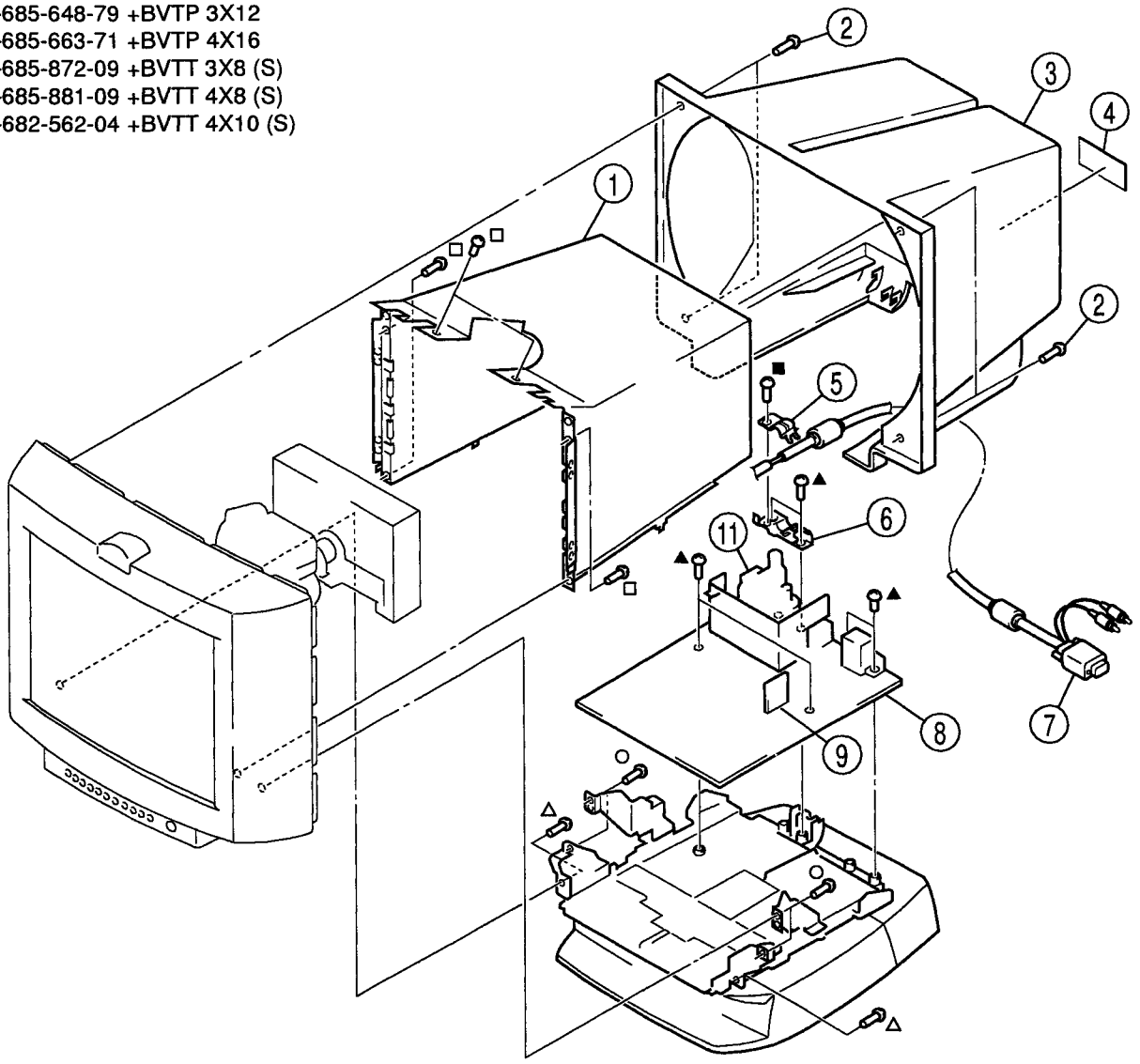
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

NOTE:
- Items with no part number and no description are not stocked because thy are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-1. CHASSIS (1)

▲ 7-685-648-79 +BVTP 3X12
△ 7-685-663-71 +BVTP 4X16
□ 7-685-872-09 +BVTT 3X8 (S)
■ 7-685-881-09 +BVTT 4X8 (S)
○ 7-682-562-04 +BVTT 4X10 (S)



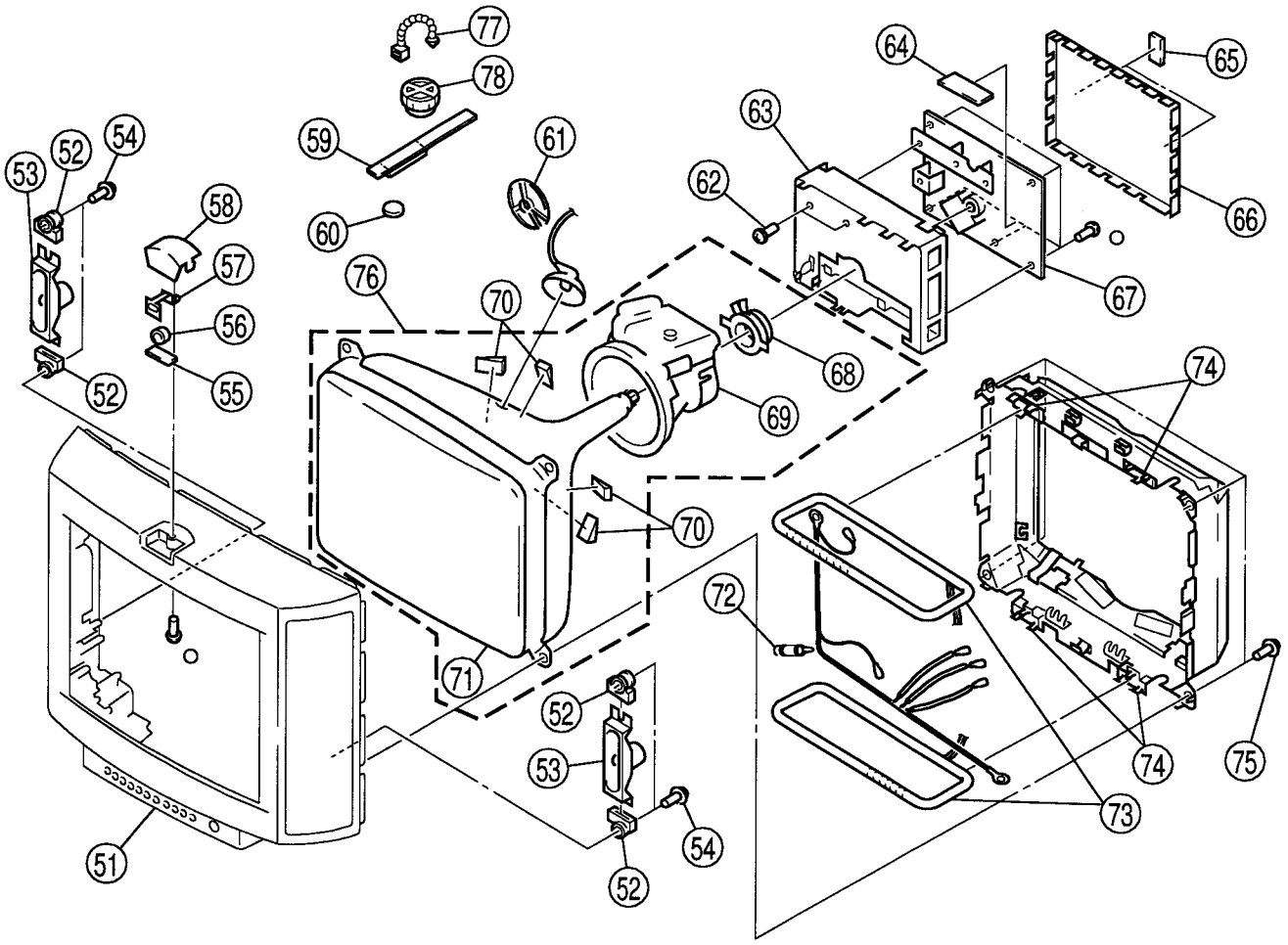
REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*4-058-709-01	SHIELD, EMI [for Japan-made set]	
1	*4-059-488-01	SHIELD, EMI [for USA-made set]	
2	4-052-070-11	SCREW +BVTP 4X16	
3	4-058-393-01	CABINET [for Japan-made set]	
3	4-059-476-01	CABINET [for USA-made set]	
4	*4-058-875-01	LABEL, MODEL NUMBER	
5	*4-054-667-01	STOPPER, CABLE	
6	*4-045-130-01	BRACKET, CABLE	
7	1-782-461-11	CABLE ASSY	
8	*8-933-243-00	D BOARD, COMPLETE	9
9	*8-933-240-00	DA BOARD, COMPLETE	
11	⚠X-4034-572-1	TRANSFORMER ASSY, FLYBACK	(NX-4103/J1E4)

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

6-2. CHASSIS (2)

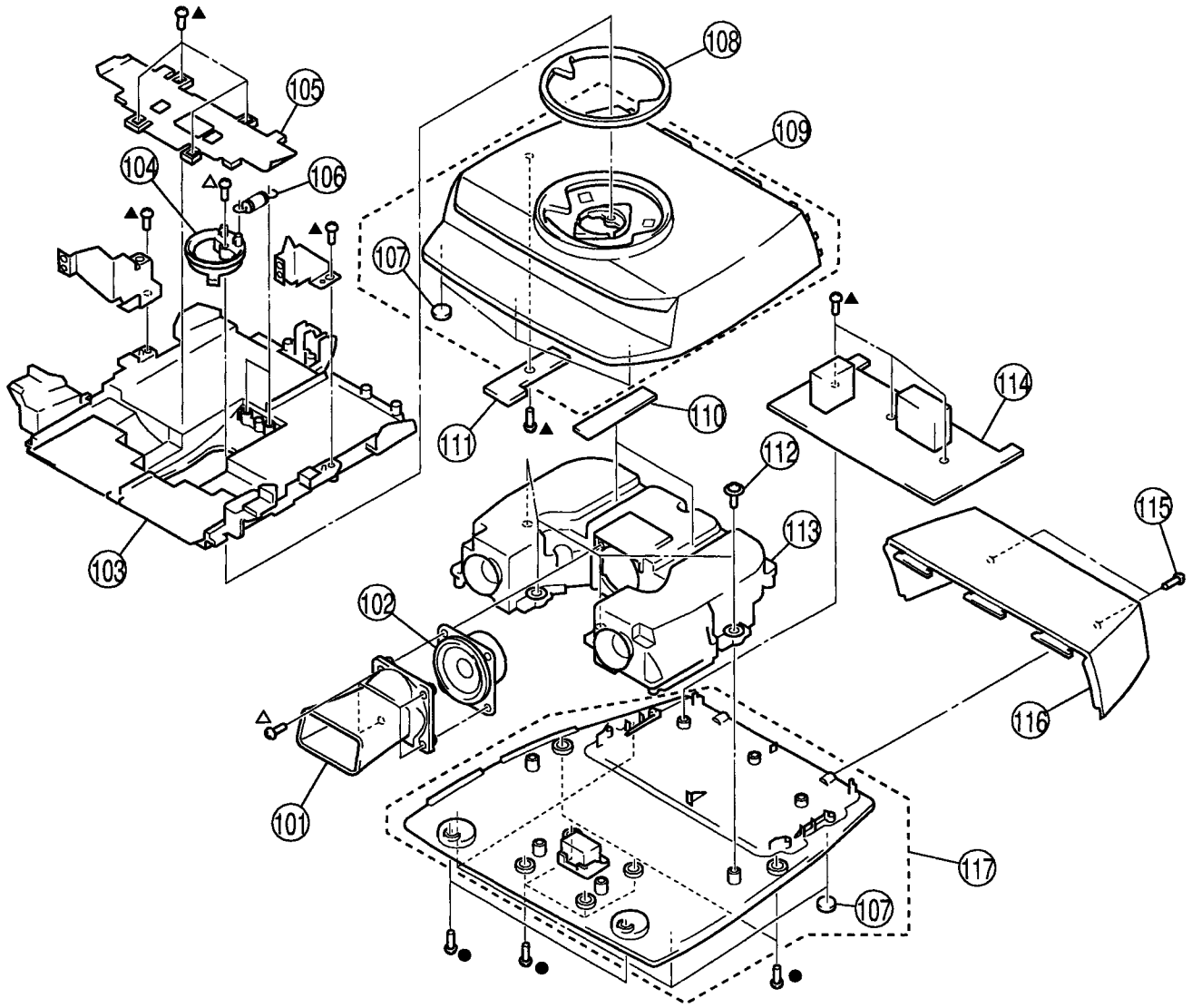
○ 7-685-646-79 +BVTP 3X8



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4034-408-2	BEZEL ASSY [for Japan-made set]	
51	X-4034-626-1	BEZEL ASSY [for USA-made set]	
52	*4-054-668-01	HOLDER, SPEAKER	
53	1-505-439-11	SPEAKER (3X10CM)	
54	4-384-096-01	SCREW (4X16), TAPPING, +P	
55	*4-058-939-01	CUSHION, MICROPHONE	
56	1-542-323-11	MICROPHONE ASSY	
57	*4-058-877-01	SHIELD, MICROPHONE	
58	4-058-386-01	CABINET, MICROPHONE [for Japan-made set]	
58	4-059-487-01	CABINET, MICROPHONE [for USA-made set]	
59	X-4030-584-1	PERMALLOY ASSY, CORRECTION	
60	1-452-032-00	MAGNET,DISC ; 10mmϕ	
61	3-704-372-01	HOLDER, HV CABLE [for Japan-made set]	
61	3-704-372-31	HOLDER, HV CABLE [for USA-made set]	
62	4-382-854-01	SCREW (M3X8), P, SW (+)	
63	*X-4034-551-1	CASE ASSY, VIDEO	
64	*8-933-239-00	AE BOARD, COMPLETE	
65	*4-059-050-01	CUSHION (17), A	
66	*4-058-711-01	SHIELD, VIDEO	
67	*8-933-242-00	A BOARD, COMPLETE	
68	⚠1-452-912-11	NECK ASSY, PICTURE TUBE (NA-2914)	
69	⚠8-451-487-11	DEFLECTION YOKE (Y17FRG-M)	
70	4-040-897-01	SPACER, DY [for USA-made set]	
70	4-050-492-01	SPACER, DY [for Japan-made set]	
71	⚠8-738-723-05	PICTURE TUBE (17FRFM)	
72	*4-047-316-01	SPRING, TENSION	
73	⚠1-416-282-11	COIL, DEMAGNETIC	
74	*4-056-260-01	SPACER, DEGAUSSER COIL	
75	4-365-808-01	SCREW (5), TAPPING	
76	⚠8-738-723-80	ITC ASSY (17FRF-R1)	68, 69, 71
77	4-308-870-00	CLIP, LEAD WIRE	
78	1-452-094-00	MAGNET, ROTATABLE DISK ; 15mmϕ	

6-3. STAND BLOCK

▲ 7-685-648-79 +BVTP 3X12
△ 7-685-663-71 +BVTP 4X16
● 7-685-661-14 +BVTP 4X12

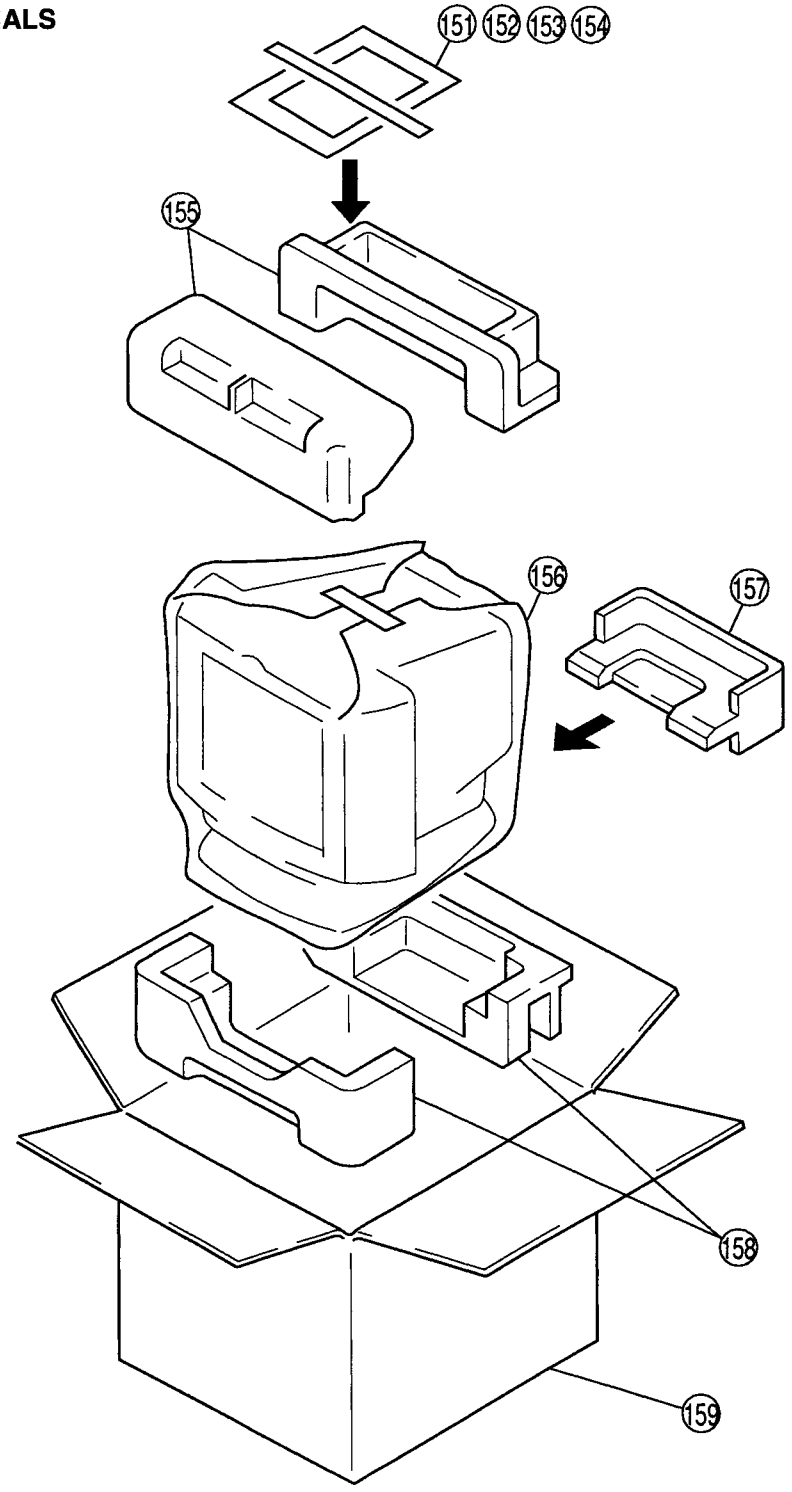


REF.NO.	PART NO.	DESCRIPTION	REMARK
101	*X-4034-535-1	HORN ASSY, FRONT [for Japan-made set]	
101	*X-4034-630-1	HORN ASSY, FRONT [for USA-made set]	
102	1-505-440-11	SPEAKER (7CM)	
103	4-058-387-01	COVER, BOTTOM [for Japan-made set]	
103	4-059-477-01	COVER, BOTTOM [for USA-made set]	
104	*4-058-385-01	STOPPER [for Japan-made set]	
104	*4-059-485-01	STOPPER [for USA-made set]	
105	*4-058-388-01	COVER, CABLE [for Japan-made set]	
105	*4-059-486-01	COVER, CABLE [for USA-made set]	
106	4-046-901-01	SPRING, TENSION	
107	4-047-474-01	FOOT, RUBBER	
108	*4-041-625-01	RING, TILT SWIVEL [for Japan-made set]	
108	*4-041-625-21	RING, TILT SWIVEL [for USA-made set]	
109	X-4034-513-1	BASE (UPPER) ASSY, STAND [for Japan-made set]	107
109	X-4034-631-1	BASE (UPPER) ASSY, STAND [for USA-made set]	107
110	*4-054-687-01	CUSHION, CABLE	
111	*8-933-238-00	J BOARD, COMPLETE	
112	4-384-096-01	SCREW (4X16), TAPPING, +P	
113	X-4033-848-1	BOX ASSY, SPEAKER [for Japan-made set]	
113	X-4034-628-1	BOX ASSY, SPEAKER [for USA-made set]	
114	*8-933-241-00	U BOARD, COMPLETE	
115	4-052-070-11	SCREW +BVTP 4X16	
116	4-058-392-01	BASE (REAR), STAND [for Japan-made set]	
116	4-059-480-01	BASE (REAR), STAND [for USA-made set]	
117	X-4034-514-1	BASE (LOWER) ASSY, STAND [for Japan-made set]	107
117	X-4034-632-1	BASE (LOWER) ASSY, STAND [for USA-made set]	107

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

6-4. PACKING MATERIALS



REF.NO.	PART NO.	DESCRIPTION	REMARK
151	3-859-790-11	MANUAL, INSTRUCTION	
152	⚠1-765-718-21	CORD SET, POWER (10A/125V)	
153	1-777-626-11	CABLE, USB	
154	4-056-722-01	MONITOR INFORMATION DISK (WINDOWS 95, 3.5") [for Japan-made set]	
154	4-056-722-11	MONITOR INFORMATION DISK (WINDOWS 95, 3.5") [for USA -made set]	
155	*4-057-999-01	CUSHION (UPPER) (ASSY)	
156	*4-041-927-31	BAG, POLYETHYLENE	
157	*4-058-005-01	PAD, TILT FIXED	
158	*4-058-000-01	CUSHION (LOWER) (ASSY)	
159	*4-057-998-01	INDIVIDUAL CARTON	

SECTION 7
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*8-933-242-00	A BOARD, COMPLETE				
		**********				
	4-058-346-01	SHEET, CONDUCTIVE (IC002)				
	4-382-854-01	SCREW (M3X8), P, SW (+)				
		<CAPACITOR>				
C001	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C002	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	
C003	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C004	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C005	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C006	1-128-526-11	ELECT	100MF	20%	16V	
C007	1-104-664-11	ELECT	47MF	20%	25V	
C008	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C009	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C010	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C011	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V	
C012	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C013	1-128-526-11	ELECT	100MF	20%	16V	
C014	1-107-932-11	ELECT	47MF	20%	100V	
C015	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C016	1-126-933-11	ELECT	100MF	20%	16V	
C017	1-104-664-11	ELECT	47MF	20%	25V	
C018	1-107-652-11	ELECT	10MF	20%	200V	
C019	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C020	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C022	1-126-933-11	ELECT	100MF	20%	16V	
C023	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C024	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C026	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C027	1-110-501-11	CERAMIC CHIP	0.33MF	10%	16V	
C028	1-104-664-11	ELECT	47MF	20%	25V	
C029	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	
C030	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V	
C031	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C032	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C033	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C034	1-104-664-11	ELECT	47MF	20%	25V	
C035	1-115-349-51	CERAMIC	0.01MF		2KV	
C036	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	
C037	1-104-664-11	ELECT	47MF	20%	25V	
C038	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C039	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C040	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C041	1-126-967-11	ELECT	47MF	20%	16V	
C042	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C045	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V	
C046	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	
C047	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	
C048	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	
C050	1-104-664-11	ELECT	47MF	20%	25V	
C051	1-104-498-91	ELECT	47MF		16V	
C055	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	
C058	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C080	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C081	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C082	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	
C088	1-126-933-11	ELECT	100MF	20%	16V	
C092	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C100	1-104-664-11	ELECT	47MF	20%	25V	
C101	1-117-852-91	FILM	2.2MF		50V	
C103	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C104	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	
C105	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C106	1-117-450-11	FILM	0.47MF	10%	250V	
C107	1-126-961-11	ELECT	2.2MF	20%	50V	
C108	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	
C112	1-126-235-11	ELECT	100MF	20%	10V	
C201	1-117-852-91	FILM	2.2MF		50V	
C202	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C203	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C204	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	
C205	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C206	1-117-450-11	FILM	0.47MF	10%	250V	
C207	1-126-961-11	ELECT	2.2MF	20%	50V	
C208	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	
C212	1-126-235-11	ELECT	100MF	20%	10V	
C301	1-117-852-91	FILM	2.2MF		50V	
C302	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C303	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C304	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V	
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C306	1-117-450-11	FILM	0.47MF	10%	250V	
C307	1-126-961-11	ELECT	2.2MF	20%	50V	

A

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C308	1-163-259-91	CERAMIC CHIP 220PF 5% 50V	
C312	1-126-235-11	ELECT 100MF 20% 10V	
C330	1-107-905-11	ELECT 4.7MF 20% 50V	
C334	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C351	1-137-528-11	FILM 0.1MF 10% 250V	
		<CONNECTOR>	
CN301 *	1-766-179-11	PIN, CONNECTOR (PC BOARD) 2P	
CN302	1-695-915-11	TAB (CONTACT)	
CN303	1-695-915-11	TAB (CONTACT)	
CN304	1-695-915-11	TAB (CONTACT)	
CN305 *	1-564-527-11	PLUG, CONNECTOR 12P	
CN306 *	1-564-521-11	PLUG, CONNECTOR 6P	
CN307 *	1-564-512-11	PLUG, CONNECTOR 9P	
CN309	1-564-523-11	PLUG, CONNECTOR 8P	
CN310 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN311 *	1-564-520-11	PLUG, CONNECTOR 5P	
CN312 *	1-564-508-11	PLUG, CONNECTOR 5P	
CN800 *	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P	
		<DIODE>	
D002	8-719-404-49	DIODE MA111	
D009	8-719-109-85	ZENER DIODE RD5.1ESB2	
D010	8-719-976-96	ZENER DIODE DTZ4.7C	
D011	8-719-976-96	ZENER DIODE DTZ4.7C	
D012	8-719-976-96	ZENER DIODE DTZ4.7C	
D013	8-719-976-96	ZENER DIODE DTZ4.7C	
D014	8-719-911-19	DIODE 1SS119-25	
D057	8-719-109-89	ZENER DIODE RD5.6ESB2	
D058	8-719-109-89	ZENER DIODE RD5.6ESB2	
D104	8-719-970-83	DIODE HSS82	
D105	8-719-970-83	DIODE HSS82	
D106	8-719-970-83	DIODE HSS82	
D204	8-719-970-83	DIODE HSS82	
D205	8-719-970-83	DIODE HSS82	
D206	8-719-970-83	DIODE HSS82	
D304	8-719-970-83	DIODE HSS82	
D305	8-719-970-83	DIODE HSS82	
D306	8-719-970-83	DIODE HSS82	
		<FERRITE BEAD>	
FB001	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB003	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB004	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB005	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB006	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB007	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB008	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB009	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB010	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB011	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB012	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB013	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB015	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB016	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB017	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB018	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB019	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB020	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB021	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB022	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB023	1-414-231-21	INDUCTOR, FERRITE BEAD	
FB024	1-216-295-91	CONDUCTOR, CHIP	
FB025	1-216-295-91	CONDUCTOR, CHIP	
FB026	1-216-295-91	CONDUCTOR, CHIP	
FB027	1-216-295-91	CONDUCTOR, CHIP	
FB028	1-216-295-91	CONDUCTOR, CHIP	
FB101	1-500-104-21	BEAD, FERRITE (SMD)	
FB102	1-500-104-21	BEAD, FERRITE (SMD)	
FB103	1-500-104-21	BEAD, FERRITE (SMD)	
FB110	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB201	1-500-104-21	BEAD, FERRITE (SMD)	
FB202	1-500-104-21	BEAD, FERRITE (SMD)	
FB203	1-500-104-21	BEAD, FERRITE (SMD)	
FB210	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB301	1-500-104-21	BEAD, FERRITE (SMD)	
FB302	1-500-104-21	BEAD, FERRITE (SMD)	
FB303	1-500-104-21	BEAD, FERRITE (SMD)	
FB310	1-412-911-11	INDUCTOR, FERRITE BEAD	
		<TERMINAL>	
GT101*	1-537-738-21	TERMINAL, EARTH	
GT102*	1-537-738-21	TERMINAL, EARTH	
GT103*	1-537-738-21	TERMINAL, EARTH	
GT104*	1-537-738-21	TERMINAL, EARTH	
		<IC>	
IC001	8-759-366-36	IC LM1281	
IC002	8-759-435-33	IC LM2405T	
IC003	8-759-464-57	IC SNY425/2	
IC004	8-759-434-40	IC TDA6103Q/N3,112	
IC005	8-759-100-96	IC UPC4558G2	
IC006	8-759-442-20	IC 24LC21A/SN	
IC007	8-759-098-07	IC HD74HC123AFP-T1	
IC008	8-759-269-09	IC SN74HCT04ANS	
IC009	8-759-701-58	IC NJM78M08FA	
		<JACK>	
J001	⚠1-251-598-11	SOCKET, PICTURE TUBE	
		<COIL>	
L001	1-412-537-31	INDUCTOR 100UH	
L101	1-216-295-91	CONDUCTOR, CHIP	
L102	1-410-750-41	INDUCTOR 0.47UH	
L201	1-216-295-91	CONDUCTOR, CHIP	
L202	1-410-750-41	INDUCTOR 0.47UH	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
L301	1-216-295-91	CONDUCTOR, CHIP			
L302	1-410-750-41	INDUCTOR	0.47UH		
		<TRANSISTOR>			
Q001	8-729-032-61	TRANSISTOR 2SC5022-02			
Q002	8-729-216-22	TRANSISTOR 2SA1162-G			
Q003	8-729-216-22	TRANSISTOR 2SA1162-G			
Q006	8-729-216-22	TRANSISTOR 2SA1162-G			
		<RESISTOR>			
R001	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R002	1-216-661-11	METAL CHIP	2.7K	0.50% 1/10W	
R003	1-216-101-00	METAL GLAZE	150K	5% 1/10W	
R004	1-216-085-00	METAL GLAZE	33K	5% 1/10W	
R005	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R006	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R007	1-216-295-91	CONDUCTOR, CHIP			
R008	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R009	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R010	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R011	1-216-085-00	METAL GLAZE	33K	5% 1/10W	
R012	1-216-109-00	METAL GLAZE	330K	5% 1/10W	
R013	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	
R014	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R015	1-216-053-00	METAL GLAZE	1.5K	5% 1/10W	
R016	1-216-073-00	METAL GLAZE	10K	5% 1/10W	
R017	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R018	1-216-041-00	METAL GLAZE	470	5% 1/10W	
R019	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R020	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R021	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R022	1-216-033-00	METAL GLAZE	220	5% 1/10W	
R024	1-216-065-00	METAL GLAZE	4.7K	5% 1/10W	
R025	1-216-065-00	METAL GLAZE	4.7K	5% 1/10W	
R026	1-216-073-00	METAL GLAZE	10K	5% 1/10W	
R027	1-216-089-91	METAL GLAZE	47K	5% 1/10W	
R028	1-216-372-11	METAL OXIDE	1.8	5% 2W	F
R029	1-216-103-00	METAL GLAZE	180K	5% 1/10W	
R030	1-216-097-91	METAL GLAZE	100K	5% 1/10W	
R031	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R032	1-216-655-11	METAL CHIP	1.5K	0.50% 1/10W	
R033	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W	
R034	1-216-017-91	METAL GLAZE	47	5% 1/10W	
R035	1-216-017-91	METAL GLAZE	47	5% 1/10W	
R036	1-216-017-91	METAL GLAZE	47	5% 1/10W	
R037	1-216-089-91	METAL GLAZE	47K	5% 1/10W	
R039	1-216-097-91	METAL GLAZE	100K	5% 1/10W	
R040	1-216-121-91	METAL GLAZE	1M	5% 1/10W	
R041	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R043	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W	
R044	1-216-679-11	METAL CHIP	15K	0.50% 1/10W	
R045	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W	
R046	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R047	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R048	1-211-885-21	METAL	2.2M	5% 1W	
R049	1-216-105-91	METAL GLAZE	220K	5% 1/10W	
R050	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R053	1-219-621-91	METAL	22M	10% 1/4W	
R055	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R057	1-216-017-91	METAL GLAZE	47	5% 1/10W	
R058	1-216-017-91	METAL GLAZE	47	5% 1/10W	
R064	1-202-830-00	SOLID	10K	20% 1/2W	
R077	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R078	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R080	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R081	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R086	1-216-663-11	METAL CHIP	3.3K	0.50% 1/10W	
R087	1-216-659-11	METAL CHIP	2.2K	0.50% 1/10W	
R101	1-216-631-11	METAL CHIP	150	0.50% 1/10W	
R102	1-216-013-00	METAL GLAZE	33	5% 1/10W	
R103	1-216-675-11	METAL CHIP	10K	0.50% 1/10W	
R104	1-216-019-00	METAL GLAZE	56	5% 1/10W	
R106	1-216-065-00	METAL GLAZE	4.7K	5% 1/10W	
R107	1-216-065-00	METAL GLAZE	4.7K	5% 1/10W	
R108	1-216-653-11	METAL CHIP	1.2K	0.50% 1/10W	
R109	1-216-121-91	METAL GLAZE	1M	5% 1/10W	
R110	1-216-691-11	METAL CHIP	47K	0.50% 1/10W	
R111	1-216-039-00	METAL GLAZE	390	5% 1/10W	
R112	1-216-663-11	METAL CHIP	3.3K	0.50% 1/10W	
R113	1-216-691-11	METAL CHIP	47K	0.50% 1/10W	
R114	1-216-065-00	METAL GLAZE	4.7K	5% 1/10W	
R115	1-216-631-11	METAL CHIP	150	0.50% 1/10W	
R116	1-249-405-11	CARBON	100	5% 1/4W	F
R117	1-216-121-91	METAL GLAZE	1M	5% 1/10W	
R151	1-202-549-00	SOLID	100	20% 1/2W	
R152	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W	
R162	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R201	1-216-631-11	METAL CHIP	150	0.50% 1/10W	
R202	1-216-013-00	METAL GLAZE	33	5% 1/10W	
R203	1-216-097-91	METAL GLAZE	100K	5% 1/10W	
R204	1-216-023-00	METAL GLAZE	82	5% 1/10W	
R205	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R206	1-216-065-00	METAL GLAZE	4.7K	5% 1/10W	
R207	1-216-065-00	METAL GLAZE	4.7K	5% 1/10W	
R208	1-216-653-11	METAL CHIP	1.2K	0.50% 1/10W	
R209	1-216-121-91	METAL GLAZE	1M	5% 1/10W	
R210	1-216-691-11	METAL CHIP	47K	0.50% 1/10W	
R211	1-216-039-00	METAL GLAZE	390	5% 1/10W	
R212	1-216-663-11	METAL CHIP	3.3K	0.50% 1/10W	
R213	1-216-691-11	METAL CHIP	47K	0.50% 1/10W	
R214	1-216-065-00	METAL GLAZE	4.7K	5% 1/10W	
R215	1-216-631-11	METAL CHIP	150	0.50% 1/10W	
R216	1-249-405-11	CARBON	100	5% 1/4W	F
R217	1-216-121-91	METAL GLAZE	1M	5% 1/10W	
R251	1-202-549-00	SOLID	100	20% 1/2W	
R252	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W	
R262	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R301	1-216-631-11	METAL CHIP	150	0.50% 1/10W	
R302	1-216-013-00	METAL GLAZE	33	5% 1/10W	
R303	1-216-097-91	METAL GLAZE	100K	5% 1/10W	
R304	1-216-025-91	METAL GLAZE	100	5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R305	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R306	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R307	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R308	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R309	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R310	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R311	1-216-039-00	METAL GLAZE	390	5%	1/10W
R312	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R313	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R314	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R315	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R316	1-249-405-11	CARBON	100	5%	1/4W F
R317	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R318	1-216-295-91	CONDUCTOR, CHIP			
R351	1-202-549-00	SOLID	100	20%	1/2W
R352	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R362	1-216-049-91	METAL GLAZE	1K	5%	1/10W
		<SPARK GAP>			
SG001	1-519-422-11	GAP, SPARK			
SG002	1-517-499-21	GAP, SPARK			
SG101	1-517-499-21	GAP, SPARK			
SG201	1-517-499-21	GAP, SPARK			
SG301	1-517-499-21	GAP, SPARK			
		<CRYSTAL>			
X1	1-567-890-11	VIBRATOR, CRYSTAL			

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* 8-933-239-00 AE BOARD, COMPLETE
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		<CAPACITOR>			
C700	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C701	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C702	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C703	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C705	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C706	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C707	1-104-498-91	ELECT	47MF		16V
C708	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C709	1-107-906-11	ELECT	10MF	20%	16V
C710	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C711	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C712	1-104-498-91	ELECT	47MF		16V
C713	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C714	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C715	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C716	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C717	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C718	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C719	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C721	1-107-906-11	ELECT	10MF	20%	16V
C725	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C726	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C727	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C728	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C729	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C730	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C731	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C732	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C734	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C735	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
		<CONNECTOR>			
CN700*	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P			
		<DIODE>			
D700	8-719-404-49	DIODE MA111			
D701	8-719-404-49	DIODE MA111			
D702	8-719-404-49	DIODE MA111			
D703	8-719-404-49	DIODE MA111			
D704	8-719-404-49	DIODE MA111			
D705	8-719-404-49	DIODE MA111			
D706	8-719-104-34	DIODE 1S2836			
D707	8-719-800-76	DIODE 1SS226			
D708	8-719-047-73	DIODE HRU0302A-TR			
		<IC>			
IC700	8-759-462-03	IC MC13281B			
		<TRANSISTOR>			
Q700	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q702	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q703	8-729-107-31	TRANSISTOR 2SC3545-T43			
Q704	8-729-216-22	TRANSISTOR 2SA1162-G			
Q706	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q707	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q708	8-729-107-31	TRANSISTOR 2SC3545-T43			
Q709	8-729-107-31	TRANSISTOR 2SC3545-T43			
Q710	8-729-107-31	TRANSISTOR 2SC3545-T43			
Q711	8-729-107-31	TRANSISTOR 2SC3545-T43			
Q712	8-729-107-31	TRANSISTOR 2SC3545-T43			
Q713	8-729-107-31	TRANSISTOR 2SC3545-T43			
		<RESISTOR>			
R701	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R702	1-216-013-00	METAL GLAZE	33	5%	1/10W
R703	1-216-047-91	METAL GLAZE	820	5%	1/10W
R704	1-216-013-00	METAL GLAZE	33	5%	1/10W
R705	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION		REMARK
R706	1-216-013-00	METAL GLAZE 33	5%	1/10W
R707	1-216-047-91	METAL GLAZE 820	5%	1/10W
R708	1-216-013-00	METAL GLAZE 33	5%	1/10W
R709	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R710	1-216-013-00	METAL GLAZE 33	5%	1/10W
R711	1-216-047-91	METAL GLAZE 820	5%	1/10W
R712	1-216-013-00	METAL GLAZE 33	5%	1/10W
R713	1-216-033-00	METAL GLAZE 220	5%	1/10W
R714	1-216-033-00	METAL GLAZE 220	5%	1/10W
R715	1-216-001-00	METAL GLAZE 10	5%	1/10W
R720	1-216-045-00	METAL GLAZE 680	5%	1/10W
R721	1-216-045-00	METAL GLAZE 680	5%	1/10W
R722	1-216-045-00	METAL GLAZE 680	5%	1/10W
R723	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R724	1-216-041-00	METAL GLAZE 470	5%	1/10W
R725	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R729	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R730	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R731	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R733	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W
R734	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R735	1-216-033-00	METAL GLAZE 220	5%	1/10W
R750	1-216-645-11	METAL CHIP 560	0.50%	1/10W
R751	1-216-635-11	METAL CHIP 220	0.50%	1/10W
R752	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W
R753	1-216-635-11	METAL CHIP 220	0.50%	1/10W
R754	1-216-045-00	METAL GLAZE 680	5%	1/10W
R755	1-216-013-00	METAL GLAZE 33	5%	1/10W
R756	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R760	1-216-645-11	METAL CHIP 560	0.50%	1/10W
R761	1-216-635-11	METAL CHIP 220	0.50%	1/10W
R762	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W
R763	1-216-635-11	METAL CHIP 220	0.50%	1/10W
R764	1-216-045-00	METAL GLAZE 680	5%	1/10W
R765	1-216-013-00	METAL GLAZE 33	5%	1/10W
R766	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R770	1-216-645-11	METAL CHIP 560	0.50%	1/10W
R771	1-216-635-11	METAL CHIP 220	0.50%	1/10W
R772	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W
R773	1-216-635-11	METAL CHIP 220	0.50%	1/10W
R774	1-216-045-00	METAL GLAZE 680	5%	1/10W
R775	1-216-013-00	METAL GLAZE 33	5%	1/10W
R776	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R780	1-216-045-00	METAL GLAZE 680	5%	1/10W
R781	1-216-045-00	METAL GLAZE 680	5%	1/10W
R791	1-216-045-00	METAL GLAZE 680	5%	1/10W

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*8-933-240-00 DA BOARD, COMPLETE
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<CAPACITOR>

C1608	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V
C1609	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1610	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C1611	1-163-003-11	CERAMIC CHIP 330PF	10%	50V
C1612	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C1615	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1616	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C1618	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1626	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V

<CONNECTOR>

CN1600*	1-774-512-11	CONNECTOR, BPARD TO BOARD 10P

<DIODE>

D1604	8-719-977-81	ZENER DIODE DTZ33B
D1605	8-719-978-81	DIODE DTZ-TT11-22B
D1610	8-719-404-49	DIODE MA111

<IC>

IC1601	8-759-462-65	IC TK75003D
IC1603	8-759-198-31	IC UPC1093J-1-T

<CHIP CONDUCTOR>

JR1601	1-216-295-91	CONDUCTOR, CHIP
JR1602	1-216-295-91	CONDUCTOR, CHIP

<TRANSISTOR>

Q1603	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R
Q1604	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R
Q1605	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q1606	8-729-120-28	TRANSISTOR 2SC1623-L5L6

<RESISTOR>

R1603	1-216-673-11	METAL CHIP 8.2K	0.50%	1/10W
R1607	1-216-105-91	METAL GLAZE 220K	5%	1/10W
R1608	1-216-017-91	METAL GLAZE 47	5%	1/10W
R1609	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W
R1611	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R1614	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R1615	1-216-089-91	METAL GLAZE 47K	5%	1/10W
R1620	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R1621	1-216-671-11	METAL CHIP 6.8K	0.50%	1/10W
R1622	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R1623	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R1624	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W
R1641	1-216-073-00	METAL GLAZE 10K	5%	1/10W

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*8-933-243-00	D BOARD, COMPLETE			
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	4-034-094-01	SHEET, INSULATOR (Q602)			
	4-045-133-01	HOLDER (B), LED (D913)			
	*4-049-002-01	HOLDER, LED (D914)			
	4-382-854-01	SCREW (M3X8), P, SW (+) (IC604, IC613, Q503, Q607, D603)			
	4-382-854-11	SCREW (M3X10), P, SW (+) (IC401, Q507, Q510, Q529, Q602, 608, D501, D601, D658)			
	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)			
		<CAPACITOR>			
C401	1-128-528-11	ELECT	470MF	20%	25V
C402	1-106-228-00	MYLAR	0.22MF	10%	100V
C403	1-137-399-11	FILM	0.1MF	5%	50V
C404	1-107-894-11	ELECT	220MF	20%	35V
C405	1-101-006-00	CERAMIC	0.047MF		50V
C406	1-137-375-11	FILM	0.068MF	5%	50V
C409	1-107-902-11	ELECT	1MF	20%	50V
C410	1-107-914-11	ELECT	1000MF	20%	25V
C420	1-137-368-11	FILM	0.0047MF	5%	50V
C501	1-136-169-00	FILM	0.22MF	5%	50V
C502	1-137-370-11	FILM	0.01MF	5%	50V
C503	1-107-667-11	ELECT	2.2MF	20%	160V
C505	1-126-964-11	ELECT	10MF	20%	50V
C506	1-137-370-11	FILM	0.01MF	5%	50V
C507	1-162-318-11	CERAMIC	0.001MF	10%	500V
C508	1-109-843-11	CERAMIC	33PF	5%	2KV
C509	1-136-169-00	FILM	0.22MF	5%	50V
C511	1-115-349-51	CERAMIC	0.01MF		2KV
C512	1-137-399-11	FILM	0.1MF	5%	50V
C513	1-106-383-00	MYLAR	0.047MF	10%	200V
C514	1-128-528-11	ELECT	470MF	20%	25V
C515	1-136-203-11	FILM	10000PF	5%	630V
C516	1-126-960-11	ELECT	1MF	20%	50V
C517	1-137-370-11	FILM	0.01MF	5%	50V
C518	1-165-136-11	CERAMIC	3300PF	10%	500V
C519	1-126-963-11	ELECT	4.7MF	20%	50V
C520	1-107-955-11	ELECT	100MF	20%	200V
C521	1-107-902-11	ELECT	1MF	20%	50V
C523	1-106-375-12	MYLAR	0.022MF	10%	100V
C527	1-162-117-00	CERAMIC	100PF	10%	500V
C528	1-126-965-11	ELECT	22MF	20%	50V
C532	1-106-367-00	MYLAR	0.01MF	10%	200V
C533	1-164-735-11	CAPACITOR	0.0015MF	10%	500V
C540	1-136-064-00	FILM	2200PF	3%	2KV
C541	1-109-997-11	FILM	0.0043MF	3%	2.5KV
C542	1-137-368-11	FILM	0.0047MF	5%	50V
C547	1-126-941-11	ELECT	470MF	20%	25V
C548	1-137-425-11	FILM	0.33MF	10%	100V
C549	1-137-399-11	FILM	0.1MF	5%	50V
C550	1-117-206-21	FILM	0.36MF	5%	250V
C562	1-107-846-11	FILM	0.1MF	5%	250V
C565	1-136-169-00	FILM	0.22MF	5%	50V
C566	1-137-370-11	FILM	0.01MF	5%	50V
C567	1-137-370-11	FILM	0.01MF	5%	50V
C568	1-137-370-11	FILM	0.01MF	5%	50V
C569	1-137-370-11	FILM	0.01MF	5%	50V
C570	1-115-519-11	FILM	0.56MF	5%	250V
C576	1-115-514-11	FILM	0.22MF	5%	250V
C582	1-161-754-00	CERAMIC	0.001MF	10%	2KV
C583	1-106-375-12	MYLAR	0.022MF	10%	100V
C592	1-107-846-11	FILM	0.1MF	5%	250V
C593	1-117-662-71	FILM	0.18MF	5%	250V
C598	1-137-399-11	FILM	0.1MF	5%	50V
C599	1-107-929-11	ELECT	10MF	20%	100V
C601	⚠1-104-708-51	FILM	0.47MF	20%	250V
C602	⚠1-107-533-51	FILM	1MF	20%	250V
C603	⚠1-113-912-51	CERAMIC	0.0047MF	20%	250V
C604	⚠1-113-912-51	CERAMIC	0.0047MF	20%	250V
C607	1-137-479-11	FILM	1MF	10%	400V
C608	1-113-900-11	CERAMIC	470PF	10%	250V
C613	1-113-707-11	ELECT	220MF	20%	450V
C614	1-136-203-11	FILM	0.01MF	10%	630V
C615	1-104-664-11	ELECT	47MF	20%	25V
C616	1-104-666-11	ELECT	220MF	20%	25V
C620	1-128-560-11	ELECT	22MF	20%	100V
C621	1-164-644-11	CERAMIC	330PF	10%	500V
C622	1-104-664-11	ELECT	47MF	20%	25V
C625	1-126-965-11	ELECT	22MF	20%	50V
C627	1-164-644-11	CERAMIC	330PF	10%	500V
C628	1-136-171-00	FILM	0.33MF	5%	50V
C629	1-136-171-00	FILM	0.33MF	5%	50V
C630	1-164-644-11	CERAMIC	330PF	10%	500V
C631	1-136-167-00	FILM	0.15MF	5%	50V
C632	1-136-167-00	FILM	0.15MF	5%	50V
C633	1-110-488-11	FILM	0.0082MF	2.50%	1KV
C634	1-126-941-11	ELECT	470MF	20%	25V
C635	1-126-935-11	ELECT	470MF	20%	16V
C650	1-110-641-51	ELECT	33MF	20%	200V
C651	1-107-931-11	ELECT	33MF	20%	100V
C652	1-107-890-11	ELECT	2200MF	20%	25V
C653	1-107-890-11	ELECT	2200MF	20%	25V
C654	1-128-339-11	ELECT	2200MF	20%	10V
C655	1-128-601-11	ELECT	4700MF	20%	25V
C657	1-104-664-11	ELECT	47MF	20%	25V
C658	1-136-153-00	FILM	0.01MF	5%	50V
C659	1-104-987-11	FILM	0.001MF	10%	200V
C660	1-104-664-11	ELECT	47MF	20%	25V
C662	1-104-664-11	ELECT	47MF	20%	25V
C670	1-126-961-11	ELECT	2.2MF	20%	50V
C671	1-126-965-11	ELECT	22MF	20%	50V
C672	1-104-664-11	ELECT	47MF	20%	25V
C675	1-128-528-11	ELECT	470MF	20%	16V
C801	1-102-106-00	CERAMIC	100PF	10%	50V
C802	1-102-074-00	CERAMIC	0.001MF	10%	50V
C803	1-102-106-00	CERAMIC	100PF	10%	50V
C804	1-137-364-11	FILM	0.001MF	5%	50V
C805	1-102-106-00	CERAMIC	100PF	10%	50V
C806	1-126-767-11	ELECT	1000MF	20%	16V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C807	1-137-399-11	FILM	0.1MF	5%	50V
C808	1-137-364-11	FILM	0.001MF	5%	50V
C809	1-102-106-00	CERAMIC	100PF	10%	50V
C810	1-124-768-11	ELECT	4.7MF	20%	35V
C811	1-137-399-11	FILM	0.1MF	5%	50V
C812	1-137-365-11	FILM	0.0015MF	5%	50V
C813	1-137-370-11	FILM	0.01MF	5%	50V
C814	1-136-169-00	FILM	0.22MF	5%	50V
C815	1-137-367-11	FILM	0.0033MF	5%	50V
C816	1-126-965-11	ELECT	22MF	20%	50V
C817	1-102-110-00	CERAMIC	220PF	10%	50V
C818	1-137-399-11	FILM	0.1MF	5%	50V
C819	1-136-177-00	FILM	1MF	5%	50V
C820	1-137-372-11	FILM	0.022MF	5%	50V
C900	1-136-177-00	FILM	1MF	5%	50V
C901	1-137-399-11	FILM	0.1MF	5%	50V
C902	1-137-364-11	FILM	0.001MF	5%	50V
C903	1-102-951-00	CERAMIC	15PF	5%	50V
C904	1-137-399-11	FILM	0.1MF	5%	50V
C905	1-137-399-11	FILM	0.1MF	5%	50V
C906	1-137-399-11	FILM	0.1MF	5%	50V
C907	1-126-963-11	ELECT	4.7MF	20%	50V
C908	1-102-951-00	CERAMIC	15PF	5%	50V
C909	1-126-965-11	ELECT	22MF	20%	50V
C910	1-104-664-11	ELECT	47MF	20%	25V
C911	1-126-927-11	ELECT	2200MF	20%	10V
C912	1-126-961-11	ELECT	2.2MF	20%	50V
C913	1-126-961-11	ELECT	2.2MF	20%	50V
C914	1-136-165-00	FILM	0.1MF	5%	50V
C916	1-126-961-11	ELECT	2.2MF	20%	50V
C917	1-126-961-11	ELECT	2.2MF	20%	50V
C918	1-126-961-11	ELECT	2.2MF	20%	50V
C919	1-126-961-11	ELECT	2.2MF	20%	50V
C920	1-126-961-11	ELECT	2.2MF	20%	50V
C921	1-126-961-11	ELECT	2.2MF	20%	50V
C923	1-137-370-11	FILM	0.01MF	5%	50V
C924	1-137-399-11	FILM	0.1MF	5%	50V
C925	1-126-934-11	ELECT	220MF	20%	16V
C926	1-137-364-11	FILM	0.001MF	5%	50V
C927	1-104-664-11	ELECT	47MF	20%	25V
C928	1-130-489-00	FILM	0.033MF	5%	50V
C929	1-137-399-11	FILM	0.1MF	5%	50V
C930	1-102-112-00	CERAMIC	330PF	10%	50V
C931	1-136-169-00	FILM	0.22MF	5%	50V
C932	1-137-399-11	FILM	0.1MF	5%	50V
C933	1-126-934-11	ELECT	220MF	20%	16V
C934	1-126-961-11	ELECT	2.2MF	20%	50V
C935	1-136-169-00	FILM	0.22MF	5%	50V
C936	1-137-399-11	FILM	0.1MF	5%	50V
C937	1-126-767-11	ELECT	1000MF	20%	16V
C938	1-102-527-11	CERAMIC	82PF	5%	50V
C939	1-137-374-11	FILM	0.047MF	5%	50V
C940	1-137-374-11	FILM	0.047MF	5%	50V
C941	1-136-165-00	FILM	0.1MF	5%	50V
C942	1-126-925-11	ELECT	470MF	20%	10V
C943	1-137-370-11	FILM	0.01MF	5%	50V
C944	1-137-368-11	FILM	0.0047MF	5%	50V
C945	1-137-370-11	FILM	0.01MF	5%	50V
C946	1-137-368-11	FILM	0.0047MF	5%	50V
C948	1-137-399-11	FILM	0.1MF	5%	50V
C955	1-102-106-00	CERAMIC	100PF	10%	50V
C960	1-137-399-11	FILM	0.1MF	5%	50V
C961	1-137-399-11	FILM	0.1MF	5%	50V
C967	1-102-106-00	CERAMIC	100PF	10%	50V
C968	1-126-960-11	ELECT	1MF	20%	50V
C1801	1-102-112-00	CERAMIC	330PF	10%	50V
C1802	1-102-112-00	CERAMIC	330PF	10%	50V
C1803	1-136-169-00	FILM	0.22MF	5%	50V

<CONNECTOR>

CN501*	1-580-798-11	CONNECTOR PIN (DY) 6P	
CN505*	1-564-515-11	PLUG, CONNECTOR 12P	
CN507*	1-564-512-11	PLUG, CONNECTOR 9P	
CN508*	1-564-509-11	PLUG, CONNECTOR 6P	
CN509*	1-508-879-11	BASE POST	
CN511*	1-564-511-11	PLUG, CONNECTOR 8P	
CN512	1-695-915-11	TAB (CONTACT)	
CN600	1-233-927-11	FILTER, AC INLET	
CN601	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN602*	1-774-511-11	CONNECTOR, BOARD TO BOARD 10P	
CN605*	1-506-371-00	PIN, CONNECTOR 2P	
CN607*	1-564-508-11	PLUG, CONNECTOR 5P	

<DIODE>

D401	8-719-010-34	ZENER DIODE UZ-4.7BSC
D402	8-719-979-58	DIODE EGP10D
D403	8-719-908-03	DIODE GP08D
D501	8-719-061-21	DIODE FMQ-G5FMS
D502	8-719-110-49	ZENER DIODE RD18ESB2
D503	8-719-911-19	DIODE 1SS119-25
D504	8-719-051-97	DIODE 3DL41A(LC6-15)
D505	8-719-110-17	ZENER DIODE RD10ESB2
D507	8-719-031-34	DIODE RGP02-20EG23
D508	8-719-975-77	DIODE SB340
D509	8-719-979-58	DIODE EGP10D
D510	8-719-979-58	DIODE EGP10D
D511	8-719-110-67	ZENER DIODE RD27ESB2
D512	8-719-911-19	DIODE 1SS119-25
D513	8-719-911-19	DIODE 1SS119-25
D515	8-719-948-45	DIODE ERA22-08
D520	8-719-110-67	ZENER DIODE RD27ESB2
D522	8-719-911-19	DIODE 1SS119-25
D595	8-719-911-19	DIODE 1SS119-25
D596	8-719-911-19	DIODE 1SS119-25
D598	8-719-110-49	ZENER DIODE RD18ESB2
D601 ⚠	8-719-510-53	DIODE D4SB60L
D602	8-719-911-19	DIODE 1SS119-25
D603	8-719-029-04	DIODE D5L60
D604	8-719-911-19	DIODE 1SS119-25

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REF.NO.	PART NO.	DESCRIPTION	REMARK
D605	8-719-911-19	DIODE 1SS119-25	
D606	8-719-510-64	DIODE S2LA20F	
D607	8-719-911-19	DIODE 1SS119-25	
D608	8-719-110-49	ZENER DIODE RD18ESB2	
D609	8-719-510-64	DIODE S2LA20F	
D611	8-719-911-19	DIODE 1SS119-25	
D612	8-719-911-19	DIODE 1SS119-25	
D613	8-719-911-19	DIODE 1SS119-25	
D614	8-719-911-19	DIODE 1SS119-25	
D615	8-719-911-19	DIODE 1SS119-25	
D650	8-719-510-64	DIODE S2LA20F	
D651	8-719-510-64	DIODE S2LA20F	
D652	8-719-510-64	DIODE S2LA20F	
D653	8-719-510-64	DIODE S2LA20F	
D654	8-719-510-64	DIODE S2LA20F	
D655	8-719-022-97	DIODE D2S4MF	
D656	8-719-022-97	DIODE D2S4MF	
D657	8-719-022-97	DIODE D2S4MF	
D658	8-719-052-91	DIODE D4SBS4-F	
D659	1-215-461-00	METAL 47K 1% 1/4W	
D660	8-719-911-19	DIODE 1SS119-25	
D661	8-719-911-19	DIODE 1SS119-25	
D662	8-719-064-37	DIODE R2KS	
D670	8-719-911-19	DIODE 1SS119-25	
D671	8-719-911-19	DIODE 1SS119-25	
D801	8-719-911-19	DIODE 1SS119-25	
D803	8-719-911-19	DIODE 1SS119-25	
D900	8-719-911-19	DIODE 1SS119-25	
D903	8-719-970-83	DIODE HSS82	
D905	8-719-911-19	DIODE 1SS119-25	
D906	8-719-911-19	DIODE 1SS119-25	
D907	8-719-109-89	ZENER DIODE RD5.6ESB2	
D908	8-719-911-19	DIODE 1SS119-25	
D910	8-719-911-19	DIODE 1SS119-25	
D911	8-719-911-19	DIODE 1SS119-25	
D912	8-719-911-19	DIODE 1SS119-25	
D913	8-719-311-90	DIODE SEL1922D-C	
D914	8-719-045-19	DIODE SPB-26MVWF	
D915	8-719-911-19	DIODE 1SS119-25	
D916	8-719-911-19	DIODE 1SS119-25	
D917	8-719-911-19	DIODE 1SS119-25	
D918	8-719-911-19	DIODE 1SS119-25	
D920	8-719-010-34	ZENER DIODE UZ-4.7BSC	
D921	8-719-911-19	DIODE 1SS119-25	
D922	8-719-911-19	DIODE 1SS119-25	
D934	8-719-970-83	DIODE HSS82	
D944	8-719-911-19	DIODE 1SS119-25	
		<FUSE>	
F601	⚠ 1-576-231-11	FUSE (H.B.C.) 4A/250V	
	1-533-223-11	HOLDER, FUSE ; F601	
		<FERRITE BEAD>	
FB501	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB502	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB602	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB901	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB902	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB903	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
		<TERMINAL>	
GT002*	1-537-738-21	TERMINAL, EARTH	
		<IC>	
IC400	8-759-803-42	IC LA6500-FA	
IC401	8-759-980-58	IC TDA8172	
IC602	8-759-089-53	IC UPC79M05HF	
IC604	8-759-072-98	IC TDA8138A	
IC611	8-749-012-13	IC DM-58	
IC612	8-749-011-42	IC SI-3050F	
IC613	8-759-701-88	IC NJM7912FA	
IC801	⚠ 8-759-342-07	IC UPC5023CS-095	
IC901	8-759-462-12	IC ST7272N5B1/CNT	
IC903	8-759-165-81	IC PST600D-T	
IC904	8-759-399-77	IC TDA9105	
		<COIL>	
L501	1-412-550-11	INDUCTOR 1.2MMH	
L504	1-459-104-00	COIL, WITH CORE	
L505	1-412-531-31	INDUCTOR 33UH	
L506	1-459-104-00	COIL, WITH CORE	
L507	1-412-531-31	INDUCTOR 33UH	
L513	1-409-896-11	COIL, HORIZONTAL LINEARITY	
L601	1-411-674-11	COIL, CHOKE 68UH	
L650	1-412-529-11	INDUCTOR 22UH	
L651	1-410-645-31	INDUCTOR 100UH	
L652	1-412-529-11	INDUCTOR 22UH	
L653	1-412-529-11	INDUCTOR 22UH	
L654	1-406-659-11	COIL, CHOKE 10UH	
L801	1-410-645-31	INDUCTOR 100UH	
L900	1-410-645-31	INDUCTOR 100UH	
		<FILTER>	
LF601	⚠ 1-429-180-11	TRANSFORMER, LINE FILTER (LFT)	
		<IC LINK>	
PS600	⚠ 1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
		<TRANSISTOR>	
Q500	8-729-031-89	TRANSISTOR 2SC3941A-Q(TA)	
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q502	8-729-041-41	TRANSISTOR IRFU214	
Q503	8-729-015-28	TRANSISTOR IRFI9630GS	
Q504	8-729-119-78	TRANSISTOR 2SC2785-HFE	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
Q505	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q507	8-729-041-29	TRANSISTOR BU2522AX-ON5008	
Q508	8-729-041-30	TRANSISTOR 2SB949-(Q)	
Q509	8-729-401-98	TRANSISTOR 2SD1275-Q	
Q510	8-729-027-83	TRANSISTOR 2SJ307-CB14	
Q512	8-729-027-14	TRANSISTOR 2SK1904	
Q513	8-729-027-14	TRANSISTOR 2SK1904	
Q514	8-729-027-14	TRANSISTOR 2SK1904	
Q515	8-729-140-50	TRANSISTOR 2SC3209LK	
Q528	8-729-140-50	TRANSISTOR 2SC3209LK	
Q529	8-729-028-35	TRANSISTOR 2SD1276B	
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q602	8-729-037-98	TRANSISTOR 2SK2194F08	
Q607	8-729-209-15	TRANSISTOR 2SD2012	
Q608	8-729-039-65	TRNSISTOR MX0541B-F	
Q612	8-729-230-45	TRANSISTOR 2SC2458-YGR	
Q613	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q654	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q655	8-729-029-40	TRANSISTOR DTA124ESA	
Q656	8-729-029-86	TRANSISTOR DTC124ESA	
Q657	8-729-029-86	TRANSISTOR DTC124ESA	
Q670	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q671	8-729-200-17	TRANSISTOR 2SA1091-O	
Q672	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q673	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q803	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q804	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q902	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q904	8-729-029-40	TRANSISTOR DTA124ESA	
Q905	8-729-029-40	TRANSISTOR DTA124ESA	

<RESISTOR>

R401	1-249-425-11	CARBON	4.7K	5% 1/4W	
R406	1-215-449-00	METAL	15K	1% 1/4W	
R407	1-215-447-00	METAL	12K	1% 1/4W	
R408	1-249-383-11	CARBON	1.5	5% 1/4W	F
R410	1-215-859-00	METAL OXIDE	22	5% 1W	F
R411	1-215-445-00	METAL	10K	1% 1/4W	
R412	1-215-421-00	METAL	1K	1% 1/4W	
R418	1-214-798-21	METAL	1.8	1% 1/2W	
R420	1-215-459-00	METAL	39K	1% 1/4W	
R421	1-214-798-21	METAL	1.8	1% 1/2W	
R422	1-215-866-11	METAL OXIDE	330	5% 1W	F
R423	1-215-439-00	METAL	5.6K	1% 1/4W	
R424	1-215-447-00	METAL	12K	1% 1/4W	
R425	1-215-441-00	METAL	6.8K	1% 1/4W	
R426	1-249-383-11	CARBON	1.5	5% 1/4W	F
R427	1-215-447-00	METAL	12K	1% 1/4W	
R500	1-249-405-11	CARBON	100	5% 1/4W	F
R501	1-247-863-91	CARBON	22K	5% 1/4W	
R503	1-249-437-11	CARBON	47K	5% 1/4W	
R504	1-215-888-00	METAL OXIDE	220	5% 2W	F
R505	1-247-863-91	CARBON	22K	5% 1/4W	
R506	1-216-392-11	METAL OXIDE	1.8	5% 3W	F
R507	1-249-437-11	CARBON	47K	5% 1/4W	
R508	1-216-392-11	METAL OXIDE	1.8	5% 3W	F
R509	1-249-389-11	CARBON	4.7	5% 1/4W	F
R510	1-249-389-11	CARBON	4.7	5% 1/4W	
R511	1-249-401-11	CARBON	47	5% 1/4W	
R512	1-215-469-00	METAL	100K	1% 1/4W	
R513	1-215-445-00	METAL	10K	1% 1/4W	
R514	1-249-429-11	CARBON	10K	5% 1/4W	
R515	1-215-477-00	METAL	220K	1% 1/4W	
R516	1-215-479-00	METAL	270K	1% 1/4W	
R517	1-249-417-11	CARBON	1K	5% 1/4W	F
R518	1-249-417-11	CARBON	1K	5% 1/4W	F
R519	1-249-437-11	CARBON	47K	5% 1/4W	
R520	1-249-417-11	CARBON	1K	5% 1/4W	F
R521	1-249-389-11	CARBON	4.7	5% 1/4W	F
R522	1-249-417-11	CARBON	1K	5% 1/4W	F
R523	1-249-377-11	CARBON	0.47	5% 1/4W	F
R524	1-216-447-00	METAL OXIDE	27	5% 2W	F
R525	1-249-426-11	CARBON	5.6K	5% 1/4W	
R526	1-249-377-11	CARBON	0.47	5% 1/4W	F
R527	1-215-913-11	METAL OXIDE	220	5% 3W	F
R528	1-215-910-00	METAL OXIDE	68	5% 3W	F
R529	1-249-441-11	CARBON	100K	5% 1/4W	
R530	1-216-474-11	METAL OXIDE	82	5% 3W	F
R531	1-216-474-11	METAL OXIDE	82	5% 3W	F
R532	1-249-389-11	CARBON	4.7	5% 1/4W	F
R533	1-215-488-00	METAL	620K	1% 1/4W	
R534	1-215-468-00	METAL	91K	1% 1/4W	
R535	1-215-473-00	METAL	150K	1% 1/4W	
R536	1-249-428-11	CARBON	8.2K	5% 1/4W	
R537	1-249-397-11	CARBON	22	5% 1/4W	F
R538	1-215-421-00	METAL	1K	1% 1/4W	
R539 ⚠	1-215-476-91	METAL	200K	1% 1/4W	
R540	1-215-469-00	METAL	100K	1% 1/4W	
R541	1-215-493-00	METAL	1M	1% 1/4W	
R542	1-215-429-00	METAL	2.2K	1% 1/4W	
R543	1-215-429-00	METAL	2.2K	1% 1/4W	
R544	1-215-463-00	METAL	56K	1% 1/4W	
R545	1-215-461-00	METAL	47K	1% 1/4W	
R546	1-249-397-11	CARBON	22	5% 1/4W	F
R547	1-247-807-31	CARBON	100	5% 1/4W	
R548	1-215-431-00	METAL	2.7K	1% 1/4W	
R549	1-215-880-00	METAL OXIDE	10	5% 2W	F
R550	1-249-429-11	CARBON	10K	5% 1/4W	
R551	1-215-423-00	METAL	1.2K	1% 1/4W	
R552	1-249-385-11	CARBON	2.2	5% 1/4W	F
R553	1-249-421-11	CARBON	2.2K	5% 1/4W	
R554	1-249-421-11	CARBON	2.2K	5% 1/4W	
R555	1-249-377-11	CARBON	0.47	5% 1/4W	F
R556	1-202-818-00	SOLID	1K	20% 1/2W	
R567	1-215-880-00	METAL OXIDE	10	5% 2W	F
R601 ⚠	1-202-882-91	SOLID	560K	20% 1/2W	
R602 ⚠	1-205-998-11	WIREWOUND	1	5% 10W	
R604	1-249-429-11	CARBON	10K	5% 1/4W	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R605	1-249-437-11	CARBON	47K	5%	1/4W
R606	1-249-393-11	CARBON	10	5%	1/4W F
R610	1-216-381-11	METAL OXIDE	0.22	5%	3W F
R612	1-260-123-11	CARBON	100K	5%	1/2W
R613	1-260-123-11	CARBON	100K	5%	1/2W
R618	1-249-389-11	CARBON	4.7	5%	1/4W F
R619	1-215-481-00	METAL	330K	1%	1/4W
R623	1-215-482-00	METAL	360K	1%	1/4W
R624	1-215-479-00	METAL	270K	1%	1/4W
R625	1-215-481-00	METAL	330K	1%	1/4W
R626	1-247-863-91	CARBON	22K	5%	1/4W
R627	1-215-481-00	METAL	330K	1%	1/4W
R628	1-215-481-00	METAL	330K	1%	1/4W
R629	1-215-461-00	METAL	47K	1%	1/4W
R630	1-249-421-11	CARBON	2.2K	5%	1/4W
R631	1-218-642-11	METAL OXIDE	100K	5%	1W F
R632	1-218-642-11	METAL OXIDE	100K	5%	1W F
R633	1-218-642-11	METAL OXIDE	100K	5%	1W F
R634	1-218-642-11	METAL OXIDE	100K	5%	1W F
R635	1-212-942-00	FUSIBLE	2.2	5%	1/2W F
R636	1-249-389-11	CARBON	4.7	5%	1/4W
R637	1-249-389-11	CARBON	4.7	5%	1/4W
R638	1-247-791-91	CARBON	22	5%	1/4W
R639	1-247-791-91	CARBON	22	5%	1/4W
R640	1-202-933-61	FUSIBLE	0.1	10%	1/2W F
R642	1-249-407-11	CARBON	150	5%	1/4W
R643	1-249-425-11	CARBON	4.7K	5%	1/4W
R644	1-247-863-91	CARBON	22K	5%	1/4W
R652	1-216-345-11	METAL OXIDE	0.47	5%	1W F
R653	1-249-381-11	CARBON	1	5%	1/4W F
R654	1-249-377-11	CARBON	0.47	5%	1/4W F
R655	1-249-377-11	CARBON	0.47	5%	1/4W F
R656	1-215-403-00	METAL	180	1%	1/4W
R657	1-215-419-00	METAL	820	1%	1/4W
R660	1-249-430-11	CARBON	12K	5%	1/4W F
R661	1-249-417-11	CARBON	1K	5%	1/4W
R662	1-247-895-91	CARBON	470K	5%	1/4W
R663	1-249-401-11	CARBON	47	5%	1/4W
R666	1-249-429-11	CARBON	10K	5%	1/4W
R667	1-249-429-11	CARBON	10K	5%	1/4W
R669	1-249-425-11	CARBON	4.7K	5%	1/4W
R670	1-247-863-91	CARBON	22K	5%	1/4W
R671	1-247-863-91	CARBON	22K	5%	1/4W
R673	1-249-429-11	CARBON	10K	5%	1/4W
R674	1-215-411-00	METAL	390	1%	1/4W
R675	1-215-477-00	METAL	220K	1%	1/4W
R676	1-249-417-11	CARBON	1K	5%	1/4W
R677	1-247-883-00	CARBON	150K	5%	1/4W
R678	1-247-895-91	CARBON	470K	5%	1/4W
R679	1-249-429-11	CARBON	10K	5%	1/4W
R680	1-249-429-11	CARBON	10K	5%	1/4W
R681	1-249-429-11	CARBON	10K	5%	1/4W
R801	1-249-377-11	CARBON	0.47	5%	1/4W F
R802	1-249-426-11	CARBON	5.6K	5%	1/4W
R803	1-249-426-11	CARBON	5.6K	5%	1/4W
R804	1-249-429-11	CARBON	10K	5%	1/4W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R805	1-249-429-11	CARBON	10K	5%	1/4W
R806	1-249-426-11	CARBON	5.6K	5%	1/4W
R807	1-249-438-11	CARBON	56K	5%	1/4W
R808	1-215-485-00	METAL	470K	1%	1/4W
R809	1-215-483-00	METAL	390K	1%	1/4W
R810	1-249-429-11	CARBON	10K	5%	1/4W
R811	1-249-432-11	CARBON	18K	5%	1/4W
R812	1-249-435-11	CARBON	33K	5%	1/4W
R813	1-247-887-00	CARBON	220K	5%	1/4W
R814	1-249-421-11	CARBON	2.2K	5%	1/4W
R815	1-215-457-00	METAL	33K	1%	1/4W
R817	1-215-461-00	METAL	47K	1%	1/4W
R819	1-215-457-00	METAL	33K	1%	1/4W
R820	1-215-455-00	METAL	27K	1%	1/4W
R821	1-215-465-00	METAL	68K	1%	1/4W
R822	1-215-469-00	METAL	100K	1%	1/4W
R823	1-215-477-00	METAL	220K	1%	1/4W
R824	1-249-429-11	CARBON	10K	5%	1/4W
R825	1-215-445-00	METAL	10K	1%	1/4W
R826	1-215-457-00	METAL	33K	1%	1/4W
R827	1-249-426-11	CARBON	5.6K	5%	1/4W
R828	1-249-419-11	CARBON	1.5K	5%	1/4W
R829	1-249-419-11	CARBON	1.5K	5%	1/4W
R830	1-215-461-00	METAL	47K	1%	1/4W
R831	1-215-405-00	METAL	220	1%	1/4W
R900	1-249-417-11	CARBON	1K	5%	1/4W
R901	1-249-425-11	CARBON	4.7K	5%	1/4W
R902	1-249-425-11	CARBON	4.7K	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W
R904	1-249-425-11	CARBON	4.7K	5%	1/4W
R905	1-249-425-11	CARBON	4.7K	5%	1/4W
R907	1-249-417-11	CARBON	1K	5%	1/4W
R908	1-249-425-11	CARBON	4.7K	5%	1/4W
R909	1-249-437-11	CARBON	47K	5%	1/4W
R910	1-247-895-91	CARBON	470K	5%	1/4W
R912	1-249-425-11	CARBON	4.7K	5%	1/4W
R913	1-249-417-11	CARBON	1K	5%	1/4W
R914	1-247-895-91	CARBON	470K	5%	1/4W
R915	1-249-417-11	CARBON	1K	5%	1/4W
R916	1-249-417-11	CARBON	1K	5%	1/4W
R917	1-249-401-11	CARBON	47	5%	1/4W
R918	1-249-435-11	CARBON	33K	5%	1/4W
R919	1-249-425-11	CARBON	4.7K	5%	1/4W
R920	1-249-401-11	CARBON	47	5%	1/4W
R921	1-249-421-11	CARBON	2.2K	5%	1/4W
R922	1-249-417-11	CARBON	1K	5%	1/4W
R923	1-249-417-11	CARBON	1K	5%	1/4W
R924	1-249-434-11	CARBON	27K	5%	1/4W
R925	1-249-432-11	CARBON	18K	5%	1/4W
R926	1-249-434-11	CARBON	27K	5%	1/4W
R927	1-249-434-11	CARBON	27K	5%	1/4W
R928	1-249-434-11	CARBON	27K	5%	1/4W
R929	1-249-436-11	CARBON	39K	5%	1/4W
R930	1-249-434-11	CARBON	27K	5%	1/4W
R931	1-249-428-11	CARBON	8.2K	5%	1/4W
R932	1-249-428-11	CARBON	8.2K	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by ⊠ in this manual have been carefully factory-selected for eachset in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R934	1-249-429-11	CARBON	10K	5%	1/4W
R935	1-249-428-11	CARBON	8.2K	5%	1/4W
R936	1-249-413-11	CARBON	470	5%	1/4W
R937	1-249-428-11	CARBON	8.2K	5%	1/4W
R938	1-249-428-11	CARBON	8.2K	5%	1/4W
R939	1-249-417-11	CARBON	1K	5%	1/4W
R940	1-249-434-11	CARBON	27K	5%	1/4W
R941	1-249-428-11	CARBON	8.2K	5%	1/4W
R942	1-249-434-11	CARBON	27K	5%	1/4W
R943	1-249-428-11	CARBON	8.2K	5%	1/4W
R944	1-249-424-11	CARBON	3.9K	5%	1/4W
R945	1-249-424-11	CARBON	3.9K	5%	1/4W
R946	1-247-903-00	CARBON	1M	5%	1/4W
R947	1-247-883-00	CARBON	150K	5%	1/4W
R948	1-247-883-00	CARBON	150K	5%	1/4W
R949	1-247-883-00	CARBON	150K	5%	1/4W
R950	1-247-883-00	CARBON	150K	5%	1/4W
R951	1-247-883-00	CARBON	150K	5%	1/4W
R952	1-247-883-00	CARBON	150K	5%	1/4W
R954	1-249-425-11	CARBON	4.7K	5%	1/4W
R955	1-247-807-31	CARBON	100	5%	1/4W
R956	1-249-421-11	CARBON	2.2K	5%	1/4W
R957	1-215-441-00	METAL	6.8K	1%	1/4W
R958	1-249-420-11	CARBON	1.8K	5%	1/4W
R959	1-249-428-11	CARBON	8.2K	5%	1/4W
R960	1-249-425-11	CARBON	4.7K	5%	1/4W
R961	1-215-467-00	METAL	82K	1%	1/4W
R962	1-249-429-11	CARBON	10K	5%	1/4W
R963	1-249-429-11	CARBON	10K	5%	1/4W
R964	1-247-883-00	CARBON	150K	5%	1/4W
R965	1-249-415-11	CARBON	680	5%	1/4W
R966	1-247-807-31	CARBON	100	5%	1/4W
R967	1-247-807-31	CARBON	100	5%	1/4W
R968	1-247-883-00	CARBON	150K	5%	1/4W
R969	1-247-807-31	CARBON	100	5%	1/4W
R970	1-247-807-31	CARBON	100	5%	1/4W
R971	1-247-807-31	CARBON	100	5%	1/4W
R972	1-249-429-11	CARBON	10K	5%	1/4W
R973	1-249-429-11	CARBON	10K	5%	1/4W
R974	1-249-429-11	CARBON	10K	5%	1/4W
R976	1-249-425-11	CARBON	4.7K	5%	1/4W
R977	1-249-417-11	CARBON	1K	5%	1/4W
R979	1-249-434-11	CARBON	27K	5%	1/4W
R980	1-247-883-00	CARBON	150K	5%	1/4W
R981	1-249-413-11	CARBON	470	5%	1/4W
R982	1-249-429-11	CARBON	10K	5%	1/4W
R986	1-215-445-00	METAL	10K	1%	1/4W
R989	1-249-429-11	CARBON	10K	5%	1/4W
R990	1-247-807-31	CARBON	100	5%	1/4W
R991	1-247-807-31	CARBON	100	5%	1/4W
R992	1-249-417-11	CARBON	1K	5%	1/4W
R993	1-249-422-11	CARBON	2.7K	5%	1/4W
R994	1-249-417-11	CARBON	1K	5%	1/4W
R995	1-249-413-11	CARBON	470	5%	1/4W
R996	1-249-417-11	CARBON	1K	5%	1/4W
R997	1-249-417-11	CARBON	1K	5%	1/4W
R998	1-249-429-11	CARBON	10K	5%	1/4W
R999	1-249-413-11	CARBON	470	5%	1/4W
R1801	1-215-433-00	METAL	3.3K	1%	1/4W
R1810	1-215-413-00	METAL	470	1%	1/4W
R1811	1-215-409-00	METAL	330	1%	1/4W
R1812	1-215-411-00	METAL	390	1%	1/4W
R1813	1-215-415-00	METAL	560	1%	1/4W
R1814	1-215-417-00	METAL	680	1%	1/4W
R1815	1-215-419-00	METAL	820	1%	1/4W
R1816	1-215-423-00	METAL	1.2K	1%	1/4W
R1817	1-215-427-00	METAL	1.8K	1%	1/4W
R1818	1-215-431-00	METAL	2.7K	1%	1/4W
R1819	1-215-437-00	METAL	4.7K	1%	1/4W
R1820	1-215-469-00	METAL	100K	1%	1/4W
R1822	1-215-433-00	METAL	3.3K	1%	1/4W
R1823	1-215-413-00	METAL	470	1%	1/4W
R1824	1-215-469-00	METAL	100K	1%	1/4W

<VARIABLE RESISTOR>

RV470 3-710-578-01 COVER, VOLUME, 6 MOLD
⊠RV501 ⚠ 1-241-767-21 RES, ADJ, CERMET 100K (HV ADJ)

<RELAY>

RY601 ⚠ 1-755-031-11 RELAY

<SWITCH>

S1801 1-692-431-21 SWITCH, TACTILE (CONT +)
S1802 1-692-431-21 SWITCH, TACTILE (CONT –)
S1803 1-692-431-21 SWITCH, TACTILE (VOL +)
S1804 1-692-431-21 SWITCH, TACTILE (VOL –)
S1805 1-692-431-21 SWITCH, TACTILE (BRT/GPE)
S1806 1-692-431-21 SWITCH, TACTILE (CENTER)
S1807 1-692-431-21 SWITCH, TACTILE (SIZE)
S1808 1-692-431-21 SWITCH, TACTILE (GEOM)
S1809 1-692-431-21 SWITCH, TACTILE (COLOR)
S1810 1-692-431-21 SWITCH, TACTILE (SOUND)
S1811 1-692-431-21 SWITCH, TACTILE (MUTING)
S1812 1-692-431-21 SWITCH, TACTILE (POWER)
S1813 1-692-431-21 SWITCH, TACTILE (RESET)

<SPARK GAP>

SG501 1-519-422-11 GAP, SPARK

<TRANSFORMER>

T501 ⚠ X-4034-572-1 TRANSFORMER ASSY, FLYBACK (NX-4103/J1E4)
T503 1-429-109-11 TRANSFORMER, FERRITE (DFT)
T504 1-426-971-21 TRANSFORMER, FERRITE (HDT)
T505 1-429-211-11 TRANSFORMER, FERRITE (HST)
T601 1-416-286-11 COIL, CHOKE 515UH

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REF.NO.	PART NO.	DESCRIPTION	REMARK
T602	⚠1-431-386-11	TRANSFORMER, CONVERTER (PIT)	
T603	1-429-992-11	TRANSFORMER, CONVERTER (PRT)	
		<THERMISTOR>	
TH501	1-807-796-11	THERMISTOR	
TH601	⚠1-810-990-11	THERMISTOR	
TH602	⚠1-809-827-21	THERMISTOR, POSITIVE	
		<VARISTOR>	
VA602	⚠1-801-268-51	VARISTOR TNR14V471K660	
VA603	1-801-447-51	VARISTOR TNR10V621K660	
		<CRYSTAL>	
X900	1-567-890-11	VIBRATOR, CRYSTAL	
		**********	
	*8-933-238-00	J BOARD, COMPLETE	
		**********	
		<CAPACITOR>	
C6000	1-163-031-11	CERAMIC CHIP 0.01MF 50V	
		<CONNECTOR>	
CN6000	*1-564-508-11	PLUG, CONNECTOR 5P	
CN6001	*1-564-507-11	PLUG, CONNECTOR 4P	
CN6002	*1-564-506-11	PLUG, CONNECTOR 3P	
CN6003	1-695-915-11	TAB (CONTACT)	
		<DIODE>	
D6000	8-719-404-49	DIODE MA111	
D6001	8-719-404-49	DIODE MA111	
D6002	8-719-404-49	DIODE MA111	
D6003	8-719-404-49	DIODE MA111	
		<JACK>	
J6000	1-779-676-11	CONNECTOR, USB (A) (USB DOWN STREAM)	
J6002	1-568-267-11	JACK (HEAD-PHONE)	
J6003	1-563-330-11	JACK (EXT-MIC)	
		**********	
	*8-933-241-00	U BOARD, COMPLETE	
		**********	
	4-382-854-11	SCREW (M3X10), P, SW (+) (IC5201, IC5207)	

REF.NO.	PART NO.	DESCRIPTION		REMARK
		<CAPACITOR>		
C5021	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C5202	1-126-964-11	ELECT 10MF	20%	50V
C5203	1-126-964-11	ELECT 10MF	20%	50V
C5204	1-126-967-11	ELECT 47MF	20%	16V
C5205	1-107-698-11	ELECT 10MF	20%	25V
C5206	1-107-698-11	ELECT 10MF	20%	25V
C5207	1-164-695-11	CERAMIC CHIP 0.0022MF	5%	50V
C5208	1-164-695-11	CERAMIC CHIP 0.0022MF	5%	50V
C5209	1-164-344-11	CERAMIC CHIP 0.068MF	10%	25V
C5210	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C5211	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C5212	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C5213	1-126-965-11	ELECT 22MF	20%	50V
C5214	1-104-664-11	ELECT 47MF	20%	25V
C5215	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C5217	1-164-344-11	CERAMIC CHIP 0.068MF	10%	25V
C5218	1-104-666-11	ELECT 220MF	20%	25V
C5220	1-164-344-11	CERAMIC CHIP 0.068MF	10%	25V
C5221	1-104-666-11	ELECT 220MF	20%	25V
C5223	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C5230	1-126-933-11	ELECT 100MF	20%	10V
C5236	1-126-967-11	ELECT 47MF	20%	16V
C5238	1-107-907-11	ELECT 22MF	20%	50V
C5239	1-107-902-11	ELECT 1MF	20%	50V
C5240	1-126-965-11	ELECT 22MF	20%	50V
C5241	1-104-664-11	ELECT 47MF	20%	25V
C5243	1-136-165-00	FILM 0.1MF	5%	50V
C5248	1-136-165-00	FILM 0.1MF	5%	50V
C5257	1-126-960-11	ELECT 1MF	20%	50V
C5258	1-126-967-11	ELECT 47MF	20%	16V
C5260	1-126-040-11	ELECT 1000MF	20%	35V
C5263	1-126-040-11	ELECT 1000MF	20%	35V
C5264	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C5265	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C5266	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C5270	1-126-964-11	ELECT 10MF	20%	50V
C5271	1-126-964-11	ELECT 10MF	20%	50V
C5273	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C5274	1-126-963-11	ELECT 4.7MF	20%	50V
C5275	1-136-165-00	FILM 0.1MF	5%	50V
C5276	1-136-165-00	FILM 0.1MF	5%	50V
C5277	1-104-664-11	ELECT 47MF	20%	25V
C5278	1-163-038-91	CERAMIC CHIP 0.1MF		25V
C5279	1-163-037-11	CERAMIC CHIP 0.022MF	10%	50V
C5280	1-163-037-11	CERAMIC CHIP 0.022MF	10%	50V
C5281	1-163-037-11	CERAMIC CHIP 0.022MF	10%	50V
C5282	1-163-037-11	CERAMIC CHIP 0.022MF	10%	50V
C5283	1-126-963-11	ELECT 4.7MF	20%	50V
C5284	1-126-963-11	ELECT 4.7MF	20%	50V
C5285	1-126-964-11	ELECT 10MF	20%	50V
C5286	1-164-344-11	CERAMIC CHIP 0.068MF	10%	25V
C5287	1-163-037-11	CERAMIC CHIP 0.022MF	10%	50V
C5288	1-163-037-11	CERAMIC CHIP 0.022MF	10%	50V
C5289	1-163-037-11	CERAMIC CHIP 0.022MF	10%	50V
C5290	1-126-964-11	ELECT 10MF	20%	50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C5291	1-126-964-11	ELECT 10MF 20% 50V	
C5292	1-126-963-11	ELECT 4.7MF 20% 50V	
C5293	1-126-964-11	ELECT 10MF 20% 50V	
C5294	1-126-964-11	ELECT 10MF 20% 50V	
C5295	1-126-963-11	ELECT 4.7MF 20% 50V	
C5296	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C5297	1-104-664-11	ELECT 47MF 20% 25V	
C5298	1-126-964-11	ELECT 10MF 20% 50V	
C5299	1-104-665-11	ELECT 100MF 20% 25V	
C5300	1-126-964-11	ELECT 10MF 20% 50V	
C5301	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C5302	1-104-665-11	ELECT 100MF 20% 25V	
C5303	1-126-963-11	ELECT 4.7MF 20% 50V	
C5304	1-126-963-11	ELECT 4.7MF 20% 50V	
C5305	1-104-664-11	ELECT 47MF 20% 25V	
C5306	1-104-664-11	ELECT 47MF 20% 25V	
C5307	1-126-964-11	ELECT 10MF 20% 50V	
C5308	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C5309	1-126-964-11	ELECT 10MF 20% 50V	
C5310	1-164-344-11	CERAMIC CHIP 0.068MF 10% 25V	
C5616	1-126-964-11	ELECT 10MF 20% 50V	
C5620	1-115-877-11	ELECT 4700MF 20% 25V	
		<CONNECTOR>	
CN5200*	1-564-510-11	PLUG, CONNECTOR 7P	
CN5201	1-764-101-11	PIN, CONNECTOR (PC BOARD) 2P	
CN5202*	1-564-507-11	PLUG, CONNECTOR 4P	
CN5204*	1-564-512-11	PLUG, CONNECTOR 9P	
CN5205*	1-564-510-11	PLUG, CONNECTOR 7P	
CN5601*	1-564-508-11	PLUG, CONNECTOR 5P	
CN5602*	1-564-508-11	PLUG, CONNECTOR 5P	
CN5605	1-695-915-11	TAB (CONTACT)	
CN5606	1-695-915-11	TAB (CONTACT)	
CN5607	1-695-915-11	TAB (CONTACT)	
		<DIODE>	
D5200	8-719-404-49	DIODE MA111	
D5201	8-719-404-49	DIODE MA111	
D5202	8-719-404-49	DIODE MA111	
D5203	8-719-404-49	DIODE MA111	
D5204	8-719-404-49	DIODE MA111	
D5205	8-719-404-49	DIODE MA111	
D5206	8-719-404-49	DIODE MA111	
D5207	8-719-404-49	DIODE MA111	
D5208	8-719-404-49	DIODE MA111	
D5209	8-719-404-49	DIODE MA111	
D5210	8-719-404-49	DIODE MA111	
D5211	8-719-404-49	DIODE MA111	
D5212	8-719-404-49	DIODE MA111	
D5301	8-719-976-99	ZENER DIODE DTZ5.1B	
D5304	8-719-976-99	ZENER DIODE DTZ5.1B	
D5305	8-719-404-49	DIODE MA111	
D5306	8-719-404-49	DIODE MA111	
D5608	8-719-404-49	DIODE MA111	
		<IC>	
IC5200	8-759-273-12	IC TDA7315D013TR	
IC5201	8-759-980-43	IC TDA2009A	
IC5202	8-759-100-96	IC UPC4558G2	
IC5203	8-759-100-96	IC UPC4558G2	
IC5204	8-759-100-96	IC UPC4558G2	
IC5205	8-759-349-19	IC NJM3414AM-TE2	
IC5206	8-759-100-93	IC UPC393G2	
IC5207	8-759-980-43	IC TDA2009A	
IC5601	8-759-168-19	IC TA78L09F-TE12L	
		<JACK>	
J5600	1-779-677-11	CONNECTOR, USB (B) (USB UP STREAM)	
		<COIL>	
L5201	1-408-425-00	INDUCTOR 220UH	
L5202	1-408-425-00	INDUCTOR 220UH	
		<IC LINK>	
PS5200⚠	1-532-984-91	LINK, IC (2A/90V)	
PS5201⚠	1-532-984-91	LINK, IC (2A/90V)	
		<TRANSISTOR>	
Q5001	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5201	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5202	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5203	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5204	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q5205	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5206	8-729-322-37	TRANSISTOR 2SJ175	
Q5207	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5214	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q5215	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q5216	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q5217	8-729-920-21	TRANSISTOR DTC314TK-T-146	
Q5218	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q5219	8-729-107-43	TRANSISTOR 2SC3624-L18	
Q5220	8-729-920-21	TRANSISTOR DTC314TK-T-146	
		<RESISTOR>	
R5201	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R5202	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R5203	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R5204	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R5205	1-216-097-91	METAL GLAZE 100K 5% 1/10W	
R5206	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R5207	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R5208	1-216-105-91	METAL GLAZE 220K 5% 1/10W	
R5209	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R5210	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION		REMARK
R5211	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R5212	1-216-065-00	METAL GLAZE	4.7K	5% 1/10W
R5213	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5214	1-249-377-11	CARBON	0.47	5% 1/4W F
R5215	1-249-405-11	CARBON	100	5% 1/4W F
R5216	1-216-295-91	CONDUCTOR, CHIP		
R5217	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5218	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5219	1-216-669-11	METAL CHIP	5.6K	0.50% 1/10W
R5220	1-216-049-91	METAL GLAZE	1K	5% 1/10W
R5221	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5222	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5223	1-216-669-11	METAL CHIP	5.6K	0.50% 1/10W
R5225	1-216-065-00	METAL GLAZE	4.7K	5% 1/10W
R5226	1-216-619-11	METAL CHIP	47	0.50% 1/10W
R5227	1-216-619-11	METAL CHIP	47	0.50% 1/10W
R5228	1-216-653-11	METAL CHIP	1.2K	0.50% 1/10W
R5229	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R5230	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R5232	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R5233	1-216-651-11	METAL CHIP	1K	0.50% 1/10W
R5236	1-249-385-11	CARBON	2.2	5% 1/4W F
R5237	1-249-385-11	CARBON	2.2	5% 1/4W F
R5239	1-216-295-91	CONDUCTOR, CHIP		
R5241	1-216-653-11	METAL CHIP	1.2K	0.50% 1/10W
R5242	1-216-295-91	CONDUCTOR, CHIP		
R5243	1-216-295-91	CONDUCTOR, CHIP		
R5246	1-249-389-11	CARBON	4.7	5% 1/4W F
R5252	1-249-389-11	CARBON	4.7	5% 1/4W F
R5258	1-216-295-91	CONDUCTOR, CHIP		
R5259	1-216-295-91	CONDUCTOR, CHIP		
R5260	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5261	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5262	1-216-117-00	METAL GLAZE	680K	5% 1/10W
R5263	1-216-117-00	METAL GLAZE	680K	5% 1/10W
R5264	1-216-691-11	METAL CHIP	47K	0.50% 1/10W
R5265	1-216-691-11	METAL CHIP	47K	0.50% 1/10W
R5266	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5267	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5268	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5269	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R5270	1-216-093-00	METAL GLAZE	68K	5% 1/10W
R5271	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R5272	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R5273	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R5274	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W
R5275	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5276	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W
R5277	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W
R5278	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5279	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R5281	1-216-683-11	METAL CHIP	22K	0.50% 1/10W
R5282	1-216-683-11	METAL CHIP	22K	0.50% 1/10W
R5283	1-216-671-11	METAL CHIP	6.8K	0.50% 1/10W
R5284	1-216-671-11	METAL CHIP	6.8K	0.50% 1/10W
R5285	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R5286	1-218-761-11	METAL CHIP	240K	0.50% 1/10W
R5287	1-216-690-11	METAL CHIP	43K	0.50% 1/10W
R5288	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5289	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5290	1-216-097-91	METAL GLAZE	100K	5% 1/10W
R5291	1-216-045-00	METAL GLAZE	680	5% 1/10W
R5292	1-216-683-11	METAL CHIP	22K	0.50% 1/10W
R5293	1-216-045-00	METAL GLAZE	680	5% 1/10W
R5294	1-216-683-11	METAL CHIP	22K	0.50% 1/10W
R5295	1-216-097-91	METAL GLAZE	100K	5% 1/10W
R5296	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5297	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R5298	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R5299	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R5300	1-216-699-11	METAL CHIP	100K	0.50% 1/10W
R5301	1-216-699-11	METAL CHIP	100K	0.50% 1/10W
R5302	1-216-699-11	METAL CHIP	100K	0.50% 1/10W
R5303	1-216-295-91	CONDUCTOR, CHIP		
R5304	1-216-295-91	CONDUCTOR, CHIP		
R5305	1-216-295-91	CONDUCTOR, CHIP		
R5306	1-216-690-11	METAL CHIP	43K	0.50% 1/10W
R5307	1-216-690-11	METAL CHIP	43K	0.50% 1/10W
R5308	1-216-686-11	METAL CHIP	30K	0.50% 1/10W
R5309	1-216-615-11	METAL CHIP	33	0.50% 1/10W
R5310	1-216-653-11	METAL CHIP	1.2K	0.50% 1/10W
R5311	1-216-615-11	METAL CHIP	33	0.50% 1/10W
R5312	1-216-045-00	METAL GLAZE	680	5% 1/10W
R5313	1-216-045-00	METAL GLAZE	680	5% 1/10W
R5314	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R5315	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R5318	1-216-653-11	METAL CHIP	1.2K	0.50% 1/10W
R5319	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5320	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5321	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5322	1-216-025-91	METAL GLAZE	100	5% 1/10W
R5323	1-216-117-00	METAL GLAZE	680K	5% 1/10W
R5324	1-216-117-00	METAL GLAZE	680K	5% 1/10W
R5325	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R5326	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R5327	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R5328	1-216-081-00	METAL GLAZE	22K	5% 1/10W
R5329	1-216-675-11	METAL CHIP	10K	0.50% 1/10W
R5330	1-216-699-11	METAL CHIP	100K	0.50% 1/10W
R5331	1-216-295-91	CONDUCTOR, CHIP		
R5332	1-216-686-11	METAL CHIP	30K	0.50% 1/10W
R5334	1-249-405-11	CARBON	100	5% 1/4W F
R5335	1-216-049-91	METAL GLAZE	1K	5% 1/10W
R5336	1-216-041-00	METAL GLAZE	470	5% 1/10W

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MISCELLANEOS

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⚠1-416-282-11 COIL, DEMAGNETIC
⚠1-452-912-11 NECK ASSY, PICTURE TUBE (NA-2914)
1-505-439-11 SPEAKER (3X10CM)

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	1-505-440-11	SPEAKER (7CM)	
	1-540-005-21	CAP ASSY, HIGH VOLTAGE	
	1-542-323-11	MICROPHONE ASSY	
	1-543-653-11	CORE ASSY, BEAD(DIVISION TYPE)	
⚠	1-765-718-21	CORD SET, POWER (10A/125V)	
	1-777-626-21	CABLE, USB	
	1-782-461-11	CABLE ASSY	
⚠	8-451-487-11	DEFLECTION YOKE (Y17FRG-M)	
V901 ⚠	8-738-723-05	PICTURE TUBE (17FRFM)	
⚠	8-738-723-80	ITC ASSY (17FRF-R1)	

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Display Company
Quality Engineering Dept.

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